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That close relationship must have existed between Cocomandel and the Far East during the earlier centuries of the Christian era is pietty certain. The part played by Tamrahpti or Tāmlūk as an important port in those days for the sca-horne trade between India and the Archipelago will similarly associate Bengal with the Far Last Sailendras were staunch Buddhists to whom all the magnificent Buddhist buildings which we find in Central Java, like the one which probably contained the Tara image mentioned in the Chandi-Kalasan inscriptions spoken of above, one then origin. Nos, the question is whether they were emigrants from India or were indigenous people of Java-Sumatra. who embraced Buddhism in preference to Hinduism. The Yupa inscriptions of King Mülavarmman from Koetei or East Borneo or other early epigraphical records, which have been brought to light from Champa, Cambodia or Indo-China by eminent I'reach or Dutch savants, would show that India has had a considerable abure in the colonization of The Yupa inscriptions, as Dr. Vogel has already pointed out in his yery learned brochure,1 inform us that the erection of the sacrificial posts on which they are engraved was due to the twice-born priests or Brahmans, who had carried their ancient civilization and religion to Borneo, as well as, to Java and Sumatra and that on these priests King Mülavarmman conferred rich grants of gold and land; a fact showing that as early as about 400 A D. high caste Brahmans or Vipias migrated to the Far East and settled there. Fa-Ilian found Brahmans settled in Ye-poti (Java or perhaps Sumatra) Sumatran civilization and culture seem to be of Hindu origin. Sumaira was probably the first of all the Archipelago to receive emigrants from India? The names like Coliva, Pandiya, Meliyala, by which some of the tribes that have settled in West Sumatra are known, and the fact that emigrants from India are designated by the term Köling or Kling, which is clearly derived from Kalinga, would show that Southern India, sucluding the Telugu country, had ample share in the colonization of the island or the Fur East, as Dr Vogel has already stated in his paper.3 The matrimonial alliance mentioned in our Nalanda charter, which the father of Balaputradevs had with a mighty king of the Lunar race, would, perhaps, lead us to trace the origin of the Sailendras of Java-Sumatra to India If a conjecture can be hazarded, these Suilcudras were emigrants from Kalinga or say Southern India I am not aware if the term Sailendra was ever applied to any of the dynastics which ruled in the south! or any other part of India It will be going too far to connect it with the Sailavamsas or the Sailodbhavas or other dynastics like the Silahara laving somewhat similar appellations It may be pointed out however, that the name of Malayaman, which is an exact Tamil rendering of the Sanskrit word Sailendra, meaning 'the lord of mountains', 15 to be met with in some of the inscriptions discovered in the South Arcot and Salem districts of the Madras Presidency where it is applied to some chieftains, who flourished about the 10th century A D Tamil literature, however, knows of the Malaimans, who might be attributed to the 7th and 8th centuries A D These chieftains were called Miladadayar or the rulers of Miladu, a contracted form of Malaiya-nadu or hill-country, and they claimed

¹ The Kupa inscriptions of King Mulavarman from Koelei (East Borneo), p 202

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The late Mr Venkayya (4 8 R., 1911-12, p 175) was inclined to connect them with some part of Orisa apparently on account of the similarity of names like Sailavamia and Sailendravamia, pp 42 ff. For Sailavamia, see Eo Ind., Vol IX, p 283 and J B A S, Vol LXXIII (1904, p. 2 282 f)

^{*} Rp. Ind., Vol. VI, p 42. * Ibid, Vol XI, p 282.

connection with the Chedi family? It is also noteworthy that sometimes their names end in rarmman? From the records noticed above we find that the names of the Sailendias of Java-Sumatra or Śrīvijava ended in varmman 3 The name of the Sailendra ruler given in the Nalanda plate on the other hand ends in deva This looks rather strange. The name Balaputra riself, signifying 'young son' is culions This cuding of deva, however, occurs only in the prose and formal portion but not in the other or metrical portion, which describes and eulogises these Sailendias This would go to suggest that the suffix was left out because the metre did not require it, or possibly because it did not form an integral part of the name and would have been replaced by varmman, a general suffix or surname of the ruling caste The name, however, is pure Sanskit as is the name of Taia the mother of Balaputiadeva, or Dharmasetu, her father, and would point to emigration from India Had the names of the two ancestors of Balaputradeva, that is to say, his father and grandfather. been given, we could be definite in the matter, for, if these names were un-Indian, as in the case of Kundinga, his son Asvavaiman and grandson Mülavaiman of Borneo, we could conclude that the Sanskiit names must have been taken after conversion to Hinduism, or rather Buddhism But in none of the names of the Sailendras do we find any foreign sound at all, suggerting that they were the na ives of the islands originally and came into the fold of Buddhism afterwards.

The names of the Päla kings and other personages mentioned in the introductory portion of this grant have been dealt with by Kielhorn or other scholars in connection with the contents of the Mungir copper-plate inscription. So I need not notice them here. But, besides them and the Sailöndras, our record speaks of two more persons and they require special mention. One of them is Dharmasētu whom the inscription describes as a scion of the Lunar race and the father of Bālaputradēva's mother, namely, Tālā. To our regret it does not supply any other particular regarding him and it is hardly possible to identify him or to say

1 Mr K V Sabrahmanya Ayyar, to whom I am indebted for this information, has kindly given me the following note on the Malaiyamars —

"Ancient Tamil works mention the names of a number of Malayamān chiefs, who might be attributed to the 7th and 8th centuries A D Some of these are —(1) Valayamān Iriumudikkāli, (2) Malayamān Śchya-Enādi Tirukannan, (3) Valādar-Komān Meypporul-Aāyanār and Narasinga-Munayarayar of Tirumunanppādi Their capital was Trukoilur, the head quarters of a laluk in the South Arcot district and a railway-station in the Katnādi-Vijappuram section of the South Indian Railway It is said to have been situated within the Chēdi country

The Malayaman chiefs appear to have been rendering help to one or the other of the principal powers of the South, viz, the Chila, Chöla, Pändya and the Pallana. Narasingamunayarayar was a contemporary of the Saiva saint Sundara-Vürti-Nayanār of the 8th century A D he is counted as one of the canonised 63 Saiva devotees of the Tanul country. In the account given of No 3, in the Tanul hagiology, Periyapuiānam figures a Tatton, whose name may be regarded as a variant of Datta. Besides, one of the poems of the Tanul anthology, Pattuppātļu was composed in honour of a cortain "Ārya King Piragadattan (Bhiga-Datta)". It may be noted that the Malayamān chiefs belonged to the Bhigau race as is evidenced by their inscriptions Epigral hical reference to Narasimhamunayarayan is found in the Tanjore inscriptions of the Chola King Rājarāja I (A D. 985 1013). In an early stone record of Rājakēssrivarinan found at Tirunāgēsvaram near Kunibakonam, of about the 9th century A D mention is made of Milādudayar-paļli

It is interesting to note that the later members of the Malauanian family, who figure in numerous stone inscriptions, call themselves invariably Chēdiyarājas (Cledirajas) and they are mostly subordinates of the Chōlas of the 10th to the 13th certuies A D. The appellation Chēdiyarāyan, assumed by almost all the chiefs, if it is not a mere accident, as it could not be, must indicate that they were the rulers of the Chōdi country. This fact taken with the names like Datta would make one infor a colonisation at some remote past of a branch of the line of Chōdi Kings, in the South Arcot district, where we find them."

² E Hultzsch, En Ind , Vol VII, pp 185 and 145

*Dr. Vogel in the aforesaid publication (page 194) remarks — Considering that among the dynasties of Indea proper there is a great variety of such royal surnames, as āditya, gupta, chandry, dēvapala, rāta, varchana simha, and sēna, the a'most universal employment of names in rarmman in the Fix Fast a certainly very remarkable." The instance of our Balaputradēta will furnish an exception

That close relationship must have existed between Coromandel and the Far East during the earlier centuries of the Christian era is pretty certain. The part played by Tamralipti or Tamluk as an important port in those days for the sea-borne trade between India and the Archipelago will similarly associate Bengal with the Far East Sallendras were staunch Buddhists to whom all the magnificent Buddhist buildings which we find in Central Java, like the one which probably contained the Tara image mentioned in the Chandi-Kalasan inscriptions spoken of above, owe their origin. Now, the question is whether they were emigrants from India or were indigenous people of Java-Sumatra, who embraced Buddhism in preference to Hinduism The Yupa inscriptions of King Mülavarmman from Koeter or East Borneo or other early epigraphical records, which have been brought to light from Champa, Cambodia or Indo-China by eminent French or Dutch savants, would show that India has had a considerable share in the colonization of The Yupa inscriptions, as Dr. Vogel has already pointed out in his the Far East very learned brochure,1 inform us that the erection of the sacrificial posts on which they are engraved was due to the twice-born priests or Brahmans, who had carried their ancient civilization and religion to Borneo, as well as, to Java and Sumatra and that on these priests King Milayarmman conferred rich grants of gold and land; a fact showing that as early as about 400 A. D. high caste Brahmans or Vapras migrated to the Far East and settled there. Fa-Hian found Brahmans settled in Ye-poti (Java or perhaps Sumatra) Sumatran civilization and culture seem to be of Hindu origin. Sumaira was probably the first of all the Archipelago to receive emigrants from India 2 The names like Coliya, Pandiya, Mēliyala, by which some of the tribes that have settled in West Sumatra are known, and the fact that emigrants from India are designated by the term Keling or Kling, which is clearly derived from Kalinga, would show that Southern India, including the Telugu country, had ample share in the colonization of the island or the Far East, as Dr Vogel has already stated in his paper.3 The matrimonial alliance mentioned in our Nalanda charter, which the father of Balaputraders had with a mighty king of the Lunar race, would, perhaps, lead us to trace the origin of the Sailsudras of Java-Sumatra to India If a conjecture can be bazarded, these Sailsudras were emigrants from Kalınga or say Sonthern India. I am not aware if the term Éailéndra was ever applied to any of the dynasties which ruled in the south! Or any other part of India It will be going too far to connect it with the Śailavańśa6 or the Šailodbhavas or other dynasties like the Šilāliāra laving somewhat similar appellations It may be pointed out however, that the name of Malaiyaman, which is an exact Tamil rendering of the Sanskrit word Sailendra, meaning 'the load of mountain or mountains', is to be met with in some of the inscriptions discovered in the South Arcot and Salem districts of the Madras Presidency where it is applied to some chieftains, who flourished about the 10th century A D Tamil literature, however, knows of the Malaimans, who might be attributed to the 7th and 8th centuries A D. These chieftains were called Miladudaiyar or the rulers of Miladu, a contracted form of Malaiya-nadu or hill-country, and they claimed

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2 x

whether he was an Indian king or some ruler in the Far East The name whether it is read as Dharma or Varma-setu appears to be new. The other interesting name occurring in the document is that of Balavarmman the ruler of Vyaghratati-mandala, who acted as dutaka on behalf of the Magadhan king. As to why be was selected or what special connection he had with the ruler of such a remote island as Sumatra or Java, and whether he had been there or known persocally to that king our inscription makes no mention. Apparently, there was no direct political relationship between the two; for, we know from the Khalimpurl plate of Dharmapaladeva that the Vyaghratatimandala lay within the bhukli of Pundravardhana, which was under the sway of the Pala king Dharmapala and, evidently, of Ucvapaladeva after him. Pundravardhana is the same as Paundravardhana-Pundra and Paundra being synonymous-which is the modern Rajshahi district of Bengal?. The use of the word adhipati nould indicate that in this instance at least the term mandala connotes a larger area than vishaya, which in the majority of cases seems to include a mandalas. During the reign of Dēvapāladēva. Vyāghratatī was governed by a distinct ruler called Balavarmman. The way in which he is praised in this epigraph, as the right arm of the Emperor, would show that he had a high rank even though he was one of the feudatories of Devapaladeva. As, however, our plate gives no genealogy or particulars about him his personality is very vague. A few homonymoust rulers are known to have flourished about that time but they appear to be quite different personages and even their dates will not agree with that of this plate. It looks curious that though the charter mentions the dutaka of the King of Magadha yet it leaves the ambassador or ambassadors of the Javanese King unnamed altogether.

The vagne manner in which the inscription describes the rulers of the Far East or Sumatra-Java and their relative king of the lunar race would show that its author did not know much of them. He knew of Balaputradeva and his mother Tara. The latter he compared to the goddess of that name It is not improbable that the grant registered in the epigraph was made chiefly at her instance

Our plate mentions several places calling for remarks Out of these, I have already noticed three, namely, Suvarannadripa, Yarabhūmi, and Vyūghratati Of the remaining ones Mālandā is the most important. The way, in which this record speaks of it, would show that it continued to be as important a centre of Buddhist lore as it was during the time of Hiuen Tsang's visit The spelling of the name given in this document is Nälandā which is the correct way of writing it The same spelling is given in a votive inscription on the image of

¹ Ep. Ind., Vol. IV, pp 243 ff. J. B R A. S, LXIII (1894), pp. 39 ff.

^{*} Smith Early Hestory of Indea, p. 378. As has already been stated by Cunningham (A S R., Vol. XV, pp. 112 II.) Käntära-is another name of Pundra or Paundra, e.e., sugarcane, and the Mahākāntāra of the Allahabad inscription of Samudragupia; the Great, was probably an older name of this province which, about the middle of the fourth century of the Christian era, was governed by a King Vyāghra. Thus it does not appear to be improbable that the district of Vyāghratafī or the tiger's precipio—unless of course syāghra is taken in the sense of castor oil in which case the word Vyaghratafī would be the slopé marked or overgrown with castor plants,—was named after this tiger king.

This would rather show that no mistake was made in the text of the Khalimpur grant and that Kielhorn's statement in the Ep Ind., Vol IV, p 258, footnote 3 that it was, will be obviated

eoper-plate (Vr. A. F. Hoernie, J. B. A. S. LXVI, pp. 285 if.) and another of Kärüsha or rather Brhadgrha (Kielborn, I ad Ant. Vol. XX, pp. 123 ff.). On palagographic grounds the former of the two has been assigned to the last quarter of the 10th century or say nearly one century later than the date of Devapaladeva. The other is too little known to admit of identification. The third ruler of the name, who will synchronise with our document, was the father of Ayantivarman II, who was the feudatory of Mahendrapala of Kanauj (cir., 590 A. D.), was the ruler of Kathiawar, or Saurishipa and a feudatory of the formidable rival of the monarch of Bengul.

Sankarshana which was dug out of the same site and the newly discovered statue of Tārā. It again occurs not only in some Jaina writings but such an old work as the Dighanikāya³. However, it seems to be noteworthy that none of these works called Nālanda a university but only a presperous town though Hinen Tsang describes it as if it were a University. The way in which it is described in our plate would show that it was really a centre of Buddhist learning

As to the remaining place-names mentioned in this document, I think, Srīnagara or Srīnagara-bhukti must be identified with modern Patna, which as a district, includes Rājagriha (Rājar) and, as a division or commissionership, comprises the district of Gayā, even now. It is true that in the Khalimpur grant of Dharmapāladēva, which has been referred to above, the name given for the city is Pāṭaliputra and not Śrīnagara or Nagara, still, I think, there were two designations, the one, ere, Pāṭaliputra, which meant the whole town and the other, eie., Śrīnagara, the main part of it, like the Bankipore of to-day. Nagara means the clief town generally, but in this case it meant the town, the prefix Śrī implying prosperity or wealth of the town. In other words Pāṭaliputra was the paṭṭana³ and the seat of Government, especially in earlier days during the supremacy of the Mauryas or the Imperial Guptas,⁴ lay there, and Śrīnagara was its principal portion where the office of the bhukti or division was situated. One was concerned with the whole government but the other only with eight hundred⁵ villages coming in its jurisdiction or bhukti. Thus Śrīnagara must have been a part of the whole which was termed Pāṭaliputra ⁶ That, apparently, is the reason why the latter and not the former appellation of the town is to be met with in literature.

That Rajagriha and Gaya are respectively the Rajgir and Gaya of to-day requires no demonstration. The latter is a district still, though the former has now dwindled into a luined town of the Bihar subdivision of Patna.

Regarding the villages which formed the object of the giant or endowment registered in the charter, we are told that Nandivanāka and Manivātaka were situated in the Ajapura-naya subdivision, Natikā in the Pilipinkā, and Hastigrāma in the Achalā-naya or subdivision of the Rājagpha vishaya or district, and that Pālāmaka was situated in the Kumudasātra vīthī, a subdivision of the Gayā district. If similarity of sound can be depended on, I would propose the following identifications to which proximity of Nālandā will lend a great support. The Ajapura 'naya' or subdivision of the inscription may possibly be represented by the Ajaipur? village in the Ajai Hisse Chahāram Mauzā in the Bihār Thānā and the two villages Nandivanāka and Mapivāṭaka, granted in it, would be the Nadiune or Naunvan and Mapianwan villages of these days, which are included in the Bihār Thānā. Pilipinkā I am inclined to identify with the Pilkhi or Pilkee Mauza and the Naṭikā village with the Nai Pokhār of to-day, both lying in the Silāō Thānā. Though I am unable to offer any identification for the ancient Achalā yet, I fancy, the village Hasti or Hastigiāma of the grant might be the Hethoa Bīghā village of the Bihār Thānā if not the Hathi Tolā of the Maner Police subdivision. The old village directory⁸ of the Gayā district available to me does not, apparently, give any name

¹ See my Annual Report of the Central Circle, (Patna), for 1921, p. 5 and J B B O. R S, Vol X, pp 80 ff

² Vol. I pp. 1 & 211-12

s Cf ' प्रश्तानम्श्रं नगरम्'; Bharata quoted in the Śabdakalpadruma under Nagara.

⁶ Cf. प्रतनं यत राजधानी खिता and नगरसस्त्रतपासमध्ये तद्व्यवद्वारखानम् , Yabödhara in his Jayama igalā on the Kāmasūtra of Vātsyāyana (N. S. Edition), p. 44

^{*} Even in the Khalimpur grant the frime jugaskandhātāra, or 'royal camp or headquarters' lay at Lataliputra. For the meaning of this expression of. V Smith, Early History of India, p 898 and footnote 8.

s Similarly, I would identify the nagara-bhukts of the legend on the seal, which, Dr Spooner discovered during his explorations of the site (see his A. P. R. (E C) for 1916-17, p 48) with the Sinagara-bhukts of this decument

⁷ Village Directory of the Presidency of Bengal, Vol. XXVI (Patna District)

^{*} Village Directory of the Presidency of Bengal, Vol. XXVII (Gnya District).

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9

ह-ष्टान्ते सित क्रितनां सुरान्ति यिसान् श्रेडेयाः पृषुसगरादयोष्यभूवन् [॥२॥] विजित्य येना जन्नधेर्व्यसन्धरास्विमोचिता

7 सीवपरिग्रहा इति। सवाप्यसुद्धाव्यविलोचनान्पुनर्वनेषु व(ब)स्भृन्ददृग्धमीतङ्गजाः ॥[३॥*] चलत्ख- नन्तेषु व(ब)लेषु यस्य विश्वभारा-

या निचितं रजोभि: ॥¹
पादप्रचारच्यममन्तरिच्च स्विङ्ग्रमानां सुचिरस्व(स्व)भूव ॥[४॥*] शास्त्रार्थभाजा
चलतोनुशास्य वर्ग्णाग्पतिष्ठापय-

ता खधरमें[!*] श्रीर्धर्मपालेन सतेन सीभूत्सर्गस्थितानामचणः पितृणाम् ॥[५॥*] श्रयसे-रिव जड़मैर्यदीयैविंचलिइहिंरदैः कदध्यैमाना ।

10 निरुपञ्जवसम्ब(म्ब)रं प्रवेदे श्ररणं रेखनिमेन भूतधात्रो ॥[६॥*] नेदारे विधिनोपशुक्तपयसां गंगासमेते म्बु(म्बु)धी । गोकण्णीदिषु चाप्यनुष्ठि-

तवतान्तीर्थेषु धर्म्याः क्रियाः [।*]
भ्रत्यानां सुखमेव यस्य सक्तलानुहृत्य दुष्टानिमान्लीकान्साधयती [ऽ*]नुषङ्गजनिता
सिद्धिः परत्रा-

12 प्यभूत् ॥[७॥*]
⁵तैस्तैर्दिग्वनयावसानसमये संप्रेषितानां परै: सत्नारेरपनीय खेदमखिलं सां सां गतानां मुषम् [।*] क्वत्यं भावयतां

13 यदीयसुचितं प्रीत्या चपाणासभूत् सोत्तर्णं दृदयं दिवश्युतवतां जातिस्मराणामिव ॥[८॥*] श्रीपरव(ब)सस्य दुच्चितुः चितिपतिना रा-

14 प्रमूट°तिलकस्य। रण्णादेव्याः पाणिर्जग्रहे ग्रहमेधिना तेन ॥[८॥*] धततत्रियं लच्नोः साचात्चितिनु भरीरिणी । किमवनिपतेः कीर्त्तिमृन

¹ Two strokes in place of one.

² Symbol for A at the end of a pada is peculiar.

⁸ Kielhorn has affaio.

⁴ This danda could be left out.

⁵ Kielhorn has तेर तेर which cannot be correct.

The way of writing the letter z is peculiar.

This danda could be left out.

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Page 108 -Inscription B -The missing second plate of this inscription has been discovered
                 Iyaveja by Mr D B. Diskalkar, M.A., Curator, Watson Museum
                 Antiquities, Rajkot, and will shortly be published by him in this journal -
  " 108, f. n 2 - For upadmānīya read upadhmānīya.
  , 109, 1 10 -Dr. Sukthankar is not right in his guess, for the dūtaka of the grant as found
                 in the missing plate is Rudradhara. But the writer was Kikkaka, here
                  spelt Kıkaka -Ed
     109, f n 2.-- For Dhravasona read Dhravasona
     110, 1 3 - For Rotghamitra read Rotghamitra.
         1. 5 — For Āsvina read Āsvayuja
          Text 1. 7 —For -gitan read -gitan
                 8 -For achchhetta read achchhetta
                 9 -To =vvā, add the footnote 'Read =va'.-Ed.
                11 -For Kikkakena read Kikkakena
          f n. 2 — For āgamı read āgāmı
      111, 1 3 -For '34' read '33'
             8.-For 'these two sets' read 'this set'.
             16 - For Tirunalür read Tirunalür.
              " — For onallür read onalür
              " -For 'Sunepuha"- read 'Sunaipuha"-
             17.—Insert after 'Nārāyanāmbikā', "or Nāranadēvi-auva"
             11 from the bottom —For Tirunalüi read Tirunalüi
                                  For -operumā-naliār read operumā-nalūi
                                  For Sune read Sunas
             10
                           33
        "
                                  For Mělmuri read Mělemui
        "
                           33
                                  For Mala-nādu read Mala-nādu
                                  Insert before 'villages', "hist three"
              8
              7
                                  For Turuchehuāppalli read Turuchehuāpalli.
                    22
                           33
                                  Insert after 'twelve' the following "huritanas of food should
                                     be supplied, one "
                                   For lamps read lamp
                                   Insert after 'burned' "one"
                                   For garlands read garland.
                            22
            last line
                                   For 1,82 read 1,823
                   -Insert 'vāṇ-payır' after 'punsey'
        112, I
                   For oppēruo read opperuo
                  -Cancel (tarı-kadamaı)
                   For ālukku° read oluhku°
                 For palai-känikhui read padai-känike
              10 — For Pēro read Pēr
              11.—Omit the passage from Alukkuo to niranikam in 1 13
               13 -For Magamai read mahamai
              17 -For Kattıgar-arasaram read Kathıge-arasara and add m a foot-note
                     term does not indicate any tax on firewood as the anthor suggests but may
                     have to be connected with kattige-yara, a mace-bearer or in this case the
                     village servant who carries the staff of office with him - Ed j
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^{*[}The following numerous corrections on pp 111 to 117 have been necessitated by the proof reing pus cu by the office in the belief that it had been revised by the author]

```
Page 112, 1 18,-For-kkānikkai read kānike
            " 23 — For Tu uchchirāppalli read Tiruchchirāpalli
  11
            " 23 — For Tirunalür read Tirunalür
  31
            " 24 — For Šeranai read Šeranai and for "nallar read "nallar
            , 24 -For Melmuri read Melemuri
            " 21 -For Mala-nādu read Mala-nādu
            , 24 - For Sune read Sunai
  77
            ,, 26 -For Tiruchchirappalli read Tiruchchirapalli
            " 29 - For Mala-nādu read Mala nādu
            " 33 — For Tuunalüi read Tuunalür and tusert after it, [-Tuunallüi]
            " 33 — For Šeranai° read Šēranai°
            " 34 — Far oma-nallür read omä-nalür
  21
            " 35.—For Śunepuha" read Śunaspuha"
   25
            Text, I 1 -Remove the unnecessary extra bracket after नन() and insert a hyphen at
  91
                     the end of the line
                   2 - For g read g
        19
   11
                   3 -For a read and cancel fort-note
        113
                 6 — For oम बुधि read मब्धि
   "
                  8 - Iror oux' read oug'
               ,, 14 -For 'इतिहरि' real 'हारी हरि'
   11
   22
                  23 —For °जनम त° read °जनमत?
                  9 - For चन्नान reul चन्नान.
      114, Text 1 29 -For मूत' read मूर्त and add in a footnote " (रं is the letter ju as
   21
                          generally transcribed in Nagari,-Ed ]"
                 "31.—For °हरी read °न्हरी and correct into °छरी.
         ,,
                 "34 —For मामि ाटबरी मामी and correct into मामि
   25
                 ,, 36 —Insert after ृियी the letter 'द' and correct [राखीद मार्ग 'स्विविद.
                 ,, 37 -Carry the footnote number 14 to 'af of the preceding word
   91
                 " " —For तिर्वलू real तिर्वलु and correct into तिर्वाल्
                 "38 —Correct in a foot-note वनतुरिप into नन्रिप
                                                                      Insert space after Eat and
                           for 'and nead ound'
                 ,, 34 -- [mort " [ || 23* ] " after "थे and add a foot-note " read नवामिथे [क्लामिथे]
                        [This word which occurs in connection with Rijagambhira and Rijarija,
                         both in lines 36 and 38 f, has perhaps to be understood in the sense of the
                        Tamil वळनाडु, a territorial subdivision, as suggested also by its use below,
                        ın 11. 52 and 56 f.—Ed ]"
                 " " —Insort as a foot-note on प्रहत्तपदे —"[प्रहत्तपदं posh ips stands for धामहत्त्रपद
                         which is perhaps a Sauskritised form of Mulimadu —I'd ]"
         "
                 " "—Correct मुनिपुद्दनलुरधा unto सुनेपुद्दनलुखी in a foot-note
          23
                  ,, ,, —Insert after suft '[|*]"
          33
                  " 40 -Read श्रीरगराजगर्पार as one word
          17
                  ,, 41 -After " || " insort [24*]
                 n n —For खिल श्री real खाश and correct the same into श्रीय दा ्ा•].
```

23

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Page 114, Text 1 42 -Insert a foot-note on Ww - "Read wa".
                "41-For नरायण read नारण
  22
                , 46 -For use read sto and insert spaces after wand ?
  35
                " "—For वगसाची read वनमाची
                "47 — For तिन् ' read तिरि° and correct into तिन् The letters दने को ought to be in []
        "
                   9 -Add at the end "[ Perhaps अक्साई was meant-Ed]"
                  13 -For मिधकावेर्या read भिधे कावेर्या.
         22
                   14 -Cancel the hyphen at the end and insert [ | 22* |
         "
                   15 -For सत्यक्तवाया read सञ्चकवाया
         "
              ,, 16 & 17 -[Perhaps metrical considerations would require some corrections like
         ,,
    "
                        योरंगराटसपर्यार्थं नाः णाम्बाभिधानत — Ed ]
                   25.—For चान्टक read चौंदके
             Text 1 51 -For Hu read Hu
       115,
    3>
                  ,, 53 —Correct in a foot-note, ° हीमलि° into ° ही बळि°
         "
                  "54 — Correct तिर्गालूर unto तिष्नाल्र
                  "55 —For नलू read नलु and correct into नल्°
                  "56.—In १४०३ put the nought in square brackets with an asterisk.
                  ""—For oat read oaरी
                   ,, " -For °वळ° read °वल'
                   "57.—For सने° read सने ° and correct in a foot-note °नज़र into °नज़र
                   ., 58 -For sure(;) read sure
                   ,, 59 —Insert a space after ₹ and add in a foot-note "[₹ perhaps stands
     "
                            for कण्ड १ c, मेल्कण्ड —Ed]"
                   "64 — For बी read जी and correct the whole into बोल्ड्स्पीयांह in a foot-note
          53
                   ,, 67.—Carry foot-note No. 15 to the end of ugmar.
                   "71 -Insert space after the first letter in the line and correct in a foot-note
                          माच<sup>°</sup> into आच°.
                       4-Omit A at the end of the correction
                                                        "Read से नेवडपेरमानल्र as in the Sanskrit
                      6.—Change the foot-note thus
                             portion in 1 37"
                      9 -For पान्दने read प्रोन्दे
                     14 -For पश read पश्च
       11
           33
                     15 -For होसर्वार read एन्ट्र्या
          116, Text 1 75 -For 22 read 25 and for खटना read खादना and correct mio खदना
                      76 -For परिवर्ष read परिवर्ष and correct into परि वर्ष
                     " 77 - For 23 read 26
            71
                     " 79 -For 24 read 27
            11
                     ., 80.—For दचा° read दता and correct inte दत्ता?
                     "82 —For caf read enc
            *>
                     " " -For 26 read 29
            31
                    ,, 83 -For clate read clat cand correct into ofato
                       67 -For langtabla read langtabla
                ٧v
                     10 12, 'ast sentence -For 'Lakshmi read -Sii and for as read the
       33
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Page 116, line 3 from the bottom -For Śera'- read Sera'
                                  -For Sune read Sunar.
  "
          last line -For Monday read Sunday.
          f n 3 - Insert 'and' before इसाणि
               6 -Insert at before &
               7 — Insert दत्ताप before हारेग
               8 — Cancel Curitu
      117, 1 3 -For Sēranarbenda-° read Seranarband 1-°
          ., 4 — For Trisu appalli read Tiruchchii apalli.
  27
            6 -Insert Sahyakanyā before Kāvērī and put the latter in round brackets and add
                  "in the Pravidjanapada 10, in the Mala-nadu district"
          para 2, 1 3 -Insert at the end of the line "sacred food, of one"
                ,, ,, 4 -For lamps read lamp and ensert 'one' after the comma
       11
                ,, ,, 4 -For garlands read garland
       13
                ", " 5 -For Natayana" rend Narana"
       11
                ,, ,, 5 -Insert after Pandamangalam "with its hamlets"
                ", 6 -For Sune' reid Sunai
                ", " 11 -For Chirichiapalli read Tuuchchiiapalli.
       "
                ., , 11 -- For Sune' read Sunar'.
                ..., 12 -For Melamuri read Melemuri
                ", " 12 -Mala read Mala.
       ,,
                ., ,, 17 -Cancel tankkadaman at the end of the line.
       "
                ", " 18 — For ālukumpāttam, read olukkumi pāttam
       11
                ", " 18 —For verses 22-26 read verses 25-29
       "
       118, text lls 5 & 6 - I would add a hyphen at the end of 1. 5 and take mahodaya-
                  mahidharendra as one word, thus altering the sense
                                                                          The chief who is
                  described was a Sun on the Lord of mountains, viz, the great eminence of
                  the Kadamba family.—Ed.
      130, 1 40, for XIV read XV1.
            coll 6-7 for Söchuna read Söbhana
      189, ,, 29, for name read name
   37
      191, f n 3, for the letter व after य (१) read न after त्र
       ", ", ", 12, insert length after "y"
  91
      193, 1 22, for Toramana read Totamana
      104, para 5, 1 4, for Karnāta read Karnāta
                2, ,, 13, for Siddhaladevī read Siddaladevī
   73
                 3, "2, for Karttiga read Kaittika
      197, ,,
                 1, ,, 2, for Hastināvati- read Hastināvatī-
                 3, ,, 1, for Duiga-Bhatta read Unigā-Bhatta.
          f. n. 4, jor 'g' read 'z'.
   28
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Page 198, text 1 12, for समम. roud समम
```

- .. 200, f n 8 for and and and, for see above, note 1 read see above, note 7.
- 203, trans of v 9 for Udaiya- 1cad Udaja-
- " 204 l. 8, for kere read kere.
- " , 1 21, delete who received.
- ., 291, 4th line from the bottom, insort the word "after" after "and" in brackets
 - 292, 1 5, for kkoliya read kholitya.
 - ,, 293, 1 27, omit n of Kalabhran
 - " " f n 4, last bne for Sadaiyan read Sadaiyan
 - " 294, 1 35, insert after orator "thus making it clear that Mangalaraja Madhuratara is identical with Madavikalan Marangari mentioned in the previous paragraph".
 - ", 138, insert after ceitain "Śuttakēśari-pPerumpanaikkāran l'he document was signed by", and after Perumbanaikkāran" who seems to be identical with the engraver Śuttakēśari-pPerumbanaikkāran"
 - " 295, 1 10, for Kadungon read Kadungon
 - ,, 1 22, for Maduratara read Madhuratara
 - " , 1 27, for grove read drove.
 - ,, , f n, for Epigraphia Indica read S I 1., Vol. III, Pt IV
 - ,, 296, 1 2, for inscriptions read inscription
 - " 297, 1 29, for Malava read Malava
 - " , 1 33, for Kulumadai read Kurumadai
 - " f. n 3, for o-Valanadu read o-valanadu.
 - , 308, 1 15, insert "(?)" after Kurumbunādu.
 - " , 1 36, for Kulandevan read Kulandaivan
 - .. 309, 1 6, for race read people and omit ottavar of Karavandapurattavar
 - ,, ,, trans of v 19, remove the brackets of (learned) and use roman type
 - " trans. of 1 152, for o-pPerumbanankkaran read o-pPerumbanankkaran,
 - " , f n l, for Pandya read Pandya
 - " 311, 1 11, omit 'made through an ambassador,'
 - ., , 1 17, for Rajagrīha read Rājagrīha.
 - ", ", para 2, 4th line from end, for Kalasan, read Kalasan.
 - , 312, 1 11, from end, for Prambanam read Prambanan
 - ,. 313, 1 6, for extending read governing
 - ,, ,, 1 6, from bottom, for a dūtaka or ambassador read dūtas or ambassadors
 - ", , f n 5, for Sailendras read Sailendras.
 - .. 314, 1 7, for Kalasan read Kalasan
 - ,, 315, 1. 14, for Kundinga read Kundinga
 - " 317, l. 26, ensert -Laya after Pilipinkā
 - 317, f. n 6, after 'document' at the end, add "That Nagara by itself was used as a synonym of Kusumapura or Pātaliputra is evidenced by the Dhartavitasumvāda of Isvaradatta (pp 3 f) published in the Chaturbhānī in 1922 by Mi M Ramakrishna Kavi, M A, Teacher's College, Rajahmundry

Page 320, text 1. 24, for 'समावानि' read 'समावासित'

- 321, f n. 2, for uparik, read uparika
- , 323, text 1. 57, for °तीकार्गं read तीवर्षं गं , for भनक one should expect भनक or the poet might have used भनक as a derivative of भन treating it as a stem like नीचन from नीच, and for °t ° read °t °.
- 324, f n 1, for Sakti read Sakti (twice)
- , 3251 9, for -mahishydhihrita read -mahishyadhikrita.
- .. , 1 13, for Brahmanöttaras, road Brāhmaņöttaras
- ., , 1 14, for Chandalus rend Chandalas.
- ,, 323 1.18, for -Hiranyagarbha- 1end -Miranyagarbha-.
- " , 1 28 beginning, for gf read of
- " 335, 1. 13, for Guddadi- read Guddadi.



EPIGRAPHIA INDICA

VOLUME XVII

No 1-GUDIMALLAM PLATES OF THE BANA KING VIKRAMADITYA II

BY PROFESSOR E HULTZSCH, PH.D , HALLE (SAALE)

These plates were found at Gudimallam in the Kālahasti Zamindāri, and were forwarded to Rao Bahadur H Krishna Sastri by Mr K Raghaviah of Kālahasti They have been acquired for the Government Central Museum, Madras

The copper-plates are five in number and have nine faces of writing, the outer side of the first plate being left blank. The plates are not raised into rims for the protection of the writing, which is, however, in good preservation. They measure 7¼ in length and 3½ in breadth, and are strung on a copper ring, which measures about 2¾ in diameter, and the two ends of which are fixed in a circular seal. The hole through which the ring is passed was enlarged after the inscription had been already engraved. This led to the total or partial destruction of some letters, a few of which were subsequently engraved a second time below the ring-hole. The seal bears, in relief, the figure of a bull couchant, facing the proper right, and above it what looks like a lamp-stand and a crescent. The weight of the plates with ring and seal is 133 tōlās

The alphabet is old Grantha (Il 1-53) and old Tamil (I 53 f) In the Grantha portion the superscribed i is not always distinguished from i, nor the subscribed form of ri from that of r Final forms of m occur in lines 3, 7, 35, 48, 49, 53 In $-dh_{ri}k$ (I 30), $ch\bar{e}t$ (I. 37), and $cu\bar{e}n$ (Il 26, 29, 47) the Virāma is expressed by a small dash at the right of the final consonant

The Grantha portion consists of Sanskrit prose (II 1, 14, 33, 37-47, 51-53) and of 22 verses in the Anushtubh and Aryā metres. Both the language and the metre of some of the Aryā verses are incorrect. In the footnotes on the text I have suggested a few possible emendations, but am unable to furmsh a fully satisfactory text and translation of the eight opening verses, which are addressed to Siva. The remainder of the inscription is quite intelligible, but the wording of it is not always correct. The compounds -nām-ākhya (I. 23), -ākhya-nāmaka (I 35), and kidrig-vidha (I 37) are tautological. In lines 37-39 the author violates the rules of composition by comparing words in the dative plural to nominatives singular, cf. Sākityadarpana, Translation, p 301, I In line 50 the neuter yuga is used as a masculine, and in line 53 the neuter likhitam forms the predicate of the feminine prafastih (I 52). The record ends with a short postscript in the Tamil language.

As regards orthography, au is expressed by \bar{o} in $=s\bar{o}$ (1 10) and $m\bar{o}li$ (1 12) The group ksh is replaced throughout by tsh, dm by tm in patma (11 4, 37), dh by th in narāthipa (1 24), and perhaps ddh by tth in lines 5 10, 11. The lingual l is used in gala (1, 2) The

rules of Sandhi are neglected in Nandwarmmä iti (1 19), nriparāt=bhuja- and prādāt-grāman= (1 34), chēt (1 37), and bhyah (11 39, 42 (twice), 52) In -nipunahsh=shadgunē (1 30) and in four other cases (11 38, 40, 41 (twice)) final Visarga is expressed both by its original form and by a sibilant Consonants are doubled throughout after r, and before y and r in -maddhyř (1 2), -widdhyud- (1 3), -widdrā(ddru)ma- (1 3), -māttras= (1 5), Ruddrō (1 9), Girittrēna (1 33), and pittrē (1 35), but not in traividya (1 41), tsha(ksha)tra (1 23), putrēna (1 32), vēda-traya (1 39), and vikrama (passim) The superscribed r of double consonants is often omitted through carelessness

After lengthy invocations of Siva, which have already been noticed in the preceding remarks the inscription introduces the demon king Bali (v 9), who is stated to have been the son of Virōchana, and to have granted the earth at a sacrifice to Krishna (i e to Vishnu in his incarnation as a dwarf). One of Bali's descendants was king Nandivarman (v 10 f). His son was Vijayāditya (v 12), his son Malla-dēva of the Bāna race (v 13), his son Jayamēru (v 14) alias Vikramāditya (v 15), his son Vijayāditya (vv 16, 20, and 1 44) alias Prabhumēru (vv 17, 21), and his son Vikramāditya (v 20 and 1 44) or Vikramādityavarman (v 18)

According to verse 19 a king named Nanda¹ (who may be meant for the Nandivai man of verse 10 f) had granted to Brāhmanas the village called Viprapītha With the sanction of his father (v 20 and 1 45) Vijayāditya's son Vikramāditya granted protection (rakshā), i c a confirmation of the former grant, to the Brāhmanas of this village (l. 45), because he had obtained a boon from the god of the Parasurāmēśvara temple (l. 43) In verse 21 f the donor, Prabhumēru's son, requests future kings to protect his grant Lines 50-53 record the names of the composer and of the writer of this eulogy (prašasti) A postscript in Tamil states that the revenue assessment (puram) of the village amounted to 500 kādi of paddy and 10 (kaļaāju of) gold (l. 53 f)

Before discussing the historical information which is supplied by this inscription, I may state that Viprapitha (v 19 and 1 45) is clearly a Sanskrit equivalent of Tiruvippirambēdu, the ancient name of Gudimaliam, where the temple of Parasurāmēsvara (1 43) exists to the present day

When my late friend Venkayya wrote his learned article on five Bāna inscriptions at Gudimallam, which was destined to remain his last contribution to the Epigraphia Indica (above, Vol XI, pp 222 ff), no other genealogical inscription of the Bāna dynasty was available but the Udayēndiram plates published by Kielhorn (above, Vol III, p 74 ff) From the new plates we now learn that the king Prabhumēru of the Udayēndiram plates had also the name Vijayāditya, and that his father, who is called Bānavidyādhara in the Udayēndiram plates, had the two additional names Vikramāditya and Jayamēru. These fresh facts may be used for locating in the genealogical tree a few Bāna kings who are referred to in other inscriptions. A vīragal which was published by Mi Rice² belongs to the reign of Vikramāditya-Jayamēru alias Bānavijyā(dyā)dhara, and mentions a military commander Prabhumēru who may be identified with his son and successor Vijayāditya-Piabhumēru. Inscriptions both of Vikramāditya-Jayamēiu alias Bānavidyādhara and of Vijayāditya-Prabhumēru exist also

¹ An early Rashtrakūta king Nandarāja is supposed to be mentioned in the Multāi plates of Śaka 631 (Ind Ant, Vol XVIII, p 234), but the actual reading of the plate (1 9) seems to be agreed. In the Tiwarkhīd plates of the same king (above, Vol XI, p 279) the reading is distinctly agreed. The genealogy of this Nannarāja is the same as in the Multāi plates of Śaka 631, but the date of the Tiwarkhēd plates is Śaka 553, which would mean that Mannarāja reigned at least 78 years (')

² See Venlayya's remarks, above, Vol XI, p. 222

³ Ind Ant, Vol X, p 39, No II, and Ep Carn., Vol. X, Érimtaspur Taluk, No. 6

in the Punganur Zamindari of the North Arcot District 1 One of Venkayya's Gudimallam mscriptions² contains a Saka date—820—which must be assigned to the reign of Vijayādītya-Prabhumëru, because it calls the Bana king Vijayaditya, to whose reign it belongs, the son of a queen of Banavidyadhara, ie of Vikramaditya-Jayameru Another queen of Banavidyadhara, named Kundavvai, was the daughter of Pratipati-Araiyar, ie of the Ganga king Prithivipati I,3 who was a contemporary of the Rashtraküta king Amoghavarsha I4 and of the Pāndya king Varaguna.⁵ Two further inscriptions of Vijayāditya (Prabhumēru) furnish the Saka dates 827 and 831.6

According to the Udayendiram plates, Prabhumeru's great-grandson, Vikramaditya-Vijayabāhu, was a friend of Krishna-Rāja, who used to be identified with the Rāshtrakūta king Krishna II (about A D 900) This identification cannot be upheld, because we have now for Prabhumēru Šaka dates ranging about A D 900, but Vijayabāhu's friend Krishna-Rāja must have been the Rashtrakuta king Krishna III (about A D 950), of whom we know from other sources that he made and held extensive conquests in the South The Ganga prince Prithivipati II Hastimalla, who received the title Bānādhirāja from the Chōla king Parāntaka I,7 and whose inscriptions are dated in the 9th and 15th years of the same kings (ie AD 915 and 921), would thus have been a temporary usurper and a predecessor of Vikramāditya-Vijayabāhu He was the Chola king's candidate for the Bana throne, while the legitimate ruler Vijayabahu was the protégé of the Räshtrakūta invader. To facilitate reference, I subjoin a tabular statement of the two Bana genealogies

Gudimallam plates	Uday ëndiram plates	Remarks
Nandivarman	Jaya-Nandivarman	
Vijayāditya (I).	Vijayāditya (I)	
Malla-dēva	Malla-dēva	
Vikramāditya (I) Jayamēru	Bānavīdyādhara	Son-ın-law of the Ganga Prithivipati I, who was an adversary of the Pandya Varaguna and of the Rashtrakuta Amoghavarsha I
Vıjayāditya (II) Prabhumëru	Prabhumēru	Inscriptions dated in Śaka 820, 827, 831
Vikramāditya (II) (heir-apparent)	Vikramāditya (II) Vijayāditya (III) Pugaļvippavarganda Vikramāditya (III) Vijayabāhu	Friend of the Räshtrakūta Krishua III

¹ See above, Vol. XI, p 285

² Ibid, pp 227 f

³ In his Annual Report for 1908-09, p 13, Mr R Narasimhachar has suggested that the actual name of this chief may have been Dindika

See above, Vol 1X, p. 87. * South-Ind Inscr, Vol III, Nos 47 and 48

⁶ Above, Vol XI, p 228, and Ep. Carn., Vol X, Mulbägal Täluk, No 229

⁸ Ibid, p 224, and South-Ind. Inscr., Vol II, p 589 Above, Vol IV, p 225, verse 5 A 2

rules of Sandhi are neglected in Nandivarmmā iti (1 19), nriparāt=bhija- and prādāt=grāman= (1 34), chēt (1 37), and °bhyah (11 39, 42 (twice), 52) In -nipuṇahsh=shadgunē (1 30) and in four other cases (11 38, 40, 41 (twice)) final Visaiga is expressed both by its original form and by a sibilant Consonants are doubled throughout after r, and before y and r in -maddhyē (1 2), -viddhyud- (1 3), -viddrā(ddru)ma- (1 3), -māttraś= (1 5), Ruddrō (1 9), Girittrēna (1 33), and pittrē (1 35), but not in traividya (1 41), tsha(ksha)tra (1 23), putrēna (1 32), vēda-traya (1 39), and vikrama (passim) The superscribed τ of double consonants is often omitted through carelessness

After lengthy invocations of Šiva, which have already been noticed in the preceding remarks the inscription introduces the demon king Bali (v 9), who is stated to have been the son of Virochana, and to have granted the earth at a sacrifice to Krishna (i e to Vishnu in his incarnation as a dwarf). One of Bali's descendants was king Nandivarman (v 10 f.) His son was Vijayāditya (v 12), his son Malla-dēva of the Bāna race (v 13), his son Jayamēru (v 14) alias Vikramāditya (v 15), his son Vijayāditya (vv 16, 20, and 1 44) alias Prabhumēru (vv 17, 21), and his son Vikramāditya (v 20 and 1 44) or Vikramādityavarman (v 18)

According to verse 19 a king named Nanda¹ (who may be meant for the Nandivarman of verse 10 f) had granted to Brāhmanas the village called Viprapītha With the sanction of his father (v 20 and 1 45) Vijayāditya's son Vikramāditya granted protection (rakshā), i e a confirmation of the former grant, to the Brāhmanas of this village (1 45), because he had obtained a boon from the god of the Parasurāmēsvara temple (1 43) In verse 21 f the donor, Prabhumērn's son, requests future kings to protect his grant Lines 50-53 record the names of the composer and of the writer of this eulogy (prasasti) A postscript in Tamil states that the revenue assessment (puram) of the village amounted to 500 kādi of paddy and 10 (kaļaāju of) gold (1 53 f)

Before discussing the historical information which is supplied by this inscription, I may state that Viprapitha (v 19 and 1 45) is clearly a Sanskrit equivalent of Tiruvippirambēdu, the ancient name of Gudimallam, where the temple of Parasurāmēsvara (1 43) exists to the present day

When my late friend Venkayya wrote his learned article on five Bāna inscriptions at Gudimallam, which was destined to remain his last contribution to the Epigraphia Indica (above, Vol XI, pp 222 ff), no other genealogical inscription of the Bāna dynasty was available but the Udayēndiram plates published by Kielhorn (above, Vol III, p 74 ff) From the new plates we now learn that the king Prabhumēru of the Udayēndiram plates had also the name Vijayāditya, and that his father, who is called Bānavidyādhara in the Udayēndiram plates, had the two additional names Vikramāditya and Jayamēru. These fresh facts may be used for locating in the genealogical tree a few Bāna kings who are referred to in other inscriptions. A vīragal which was published by Mr Rice's belongs to the reign of Vikramāditya-Jayamēru alias Bānavijyā(dyā)dhara, and mentions a military commander Prabhumēru who may be identified with his son and successor Vijayāditya-Prabhumēru. Inscriptions both of Vikramāditya-Jayamēru alias Bānavidyādhara and of Vijayāditya-Prabhumēru exist also

¹ An early Räshtrakūta king Naudarāja is supposed to be mentioned in the Multāi plates of Śaks 631 (Ind Ant. Vol XVIII, p 234), but the actual residung of the plate (1 9) seems to be नहराज In the Tiwarkhēd plates of the same king (above, Vol XI, p 279) the reading is distinctly नहराज The genealogy of this Naunarāja is the same as in the Multāi plates of Śaka 631, but the date of the Tiwarkhēd plates is Śaka 553, which would mean that Naunarāja re gned at least 78 years (')

² See Venkavya's remarks, above, Vol XI, p. 222

s Ind An', Vol X, p 39, No II, and Ep Carn., Vol X, Eriaiväspur Täluk, No 6.

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Vıjayāditya (II) Prabhumēru	Prabhumēru	Inscriptions dated in Saka 820, 827, 831
Vıkramädıtya (II) (heir-apparent)	Vikramāditya (II) Vijayāditya (III) Pugaļvippavarganda Vikramāditya (III) Vijayabāhu	Friend of the Rāshtrakūta Krishua

⁵ In his Annual Report for 1908-09, p 13, Mr R Narasimhachar has suggested that the actual name of this chief may have been Dindika

South-Ind Inser, Vol III, Nos 47 and 48
 See above, Vol 1X, p 87
 Above, Vol XI, p 228, and Ep Carn, Vol. X, Mulbägal Täluk, No 229

⁷ Above, Vol IV, p 225, verse 5 8 Ibid., p 224, and South-Ind. Inser., Vol II, p 389

TEXT.1

First Plate , Second Side

- 1 Namaś-Średza seasti | Jayati sa saleva-vydpi yat-krita-pr-
- 2 muaddha-kandharā-maddhyc [i*] gala-bhūshan-āhn-pratibimlam-iva su-
- 3 18-dahana-visham | [1*] Jayati hutāsina-viddyud-viddrā(ddru)ma-sainghāta-ni-
- 4 bha-jatā-bhārah [1*] yach-chhirasi mani-jatā-[bh]ā-rakta-sairt-pitma(dma)-mal-ē-
- 7 va | [2*] Jazatı pranavapyattho? lekha-mattras=sikha-sası yasya [[*] dri-
- 6 dha-nahana-khinna-vishadhara-van-anala-dagdha iva latshyah(kshyah) | [3*]

Second Plate , First Side

- 7 Jayaty-abdhara-samkāśa-kandharañ-ch-āhi-kundalam [i*] lalāt-čtsha(ksha)nam-Ākāč is i-
- 8 1[1]n-mālā-dharam vapuh | [4*] Jayatı vrish-ēšo devo lalāta-nayan-āgni-
- 9 mia(pa)tit-Ānamgah [1*] asuia-pui-āii(ri) Ruddro jigad-udaya-layamlaro bhitnah [1 [5*]
- 10 Jayatı sa-nād-ātthō=sō4 śaktı-dyaya-5gun-ākarō yıbhu-
- 11 ś=Śambhuh [1] samvrita-mantr-āitth-āitthaś='sabd-ādi-gunair=anupalabhyah 11 [6]
- 12 Jayatı jatā-dhara-mo(mau)lu = Mmandākinī-pūrita-7mahā-makut-ēfah [|*] Śi(Gi)-
- 13 may-ārppita-bhāgō guna . mhitō4 vibhu[r*]=vvyāpih(pī) | [7*]

Second Plate, Second Side

- 14 Namaś=Śivāya svastī(sti) śiī [||*] Jayati sa Kām-āmga-dahanō9
- 15 mastaka-nyasta-mugdh-ënduh [|*] k-ādī(dı)-trın-āntasy=csöto gupty-u-
- 16 tpattı-laya-hētub. [||] [8*] Balı[r*]-Vvairochanoll nāma Dāna-
- 17 v-endið mahá-baluh [1*] pradat=sa gam=makha-vaie Krishnay=ami-
- 18 ta-tējasēh¹² [||] [9*] Tasy=ānvayē samu[d]bhūtah prithivi(vI)pāla-sa-
- 19 ttamah [|*] Nandivarmm[ā] itils khyātah prasamsita-mahā-balah | [10*]

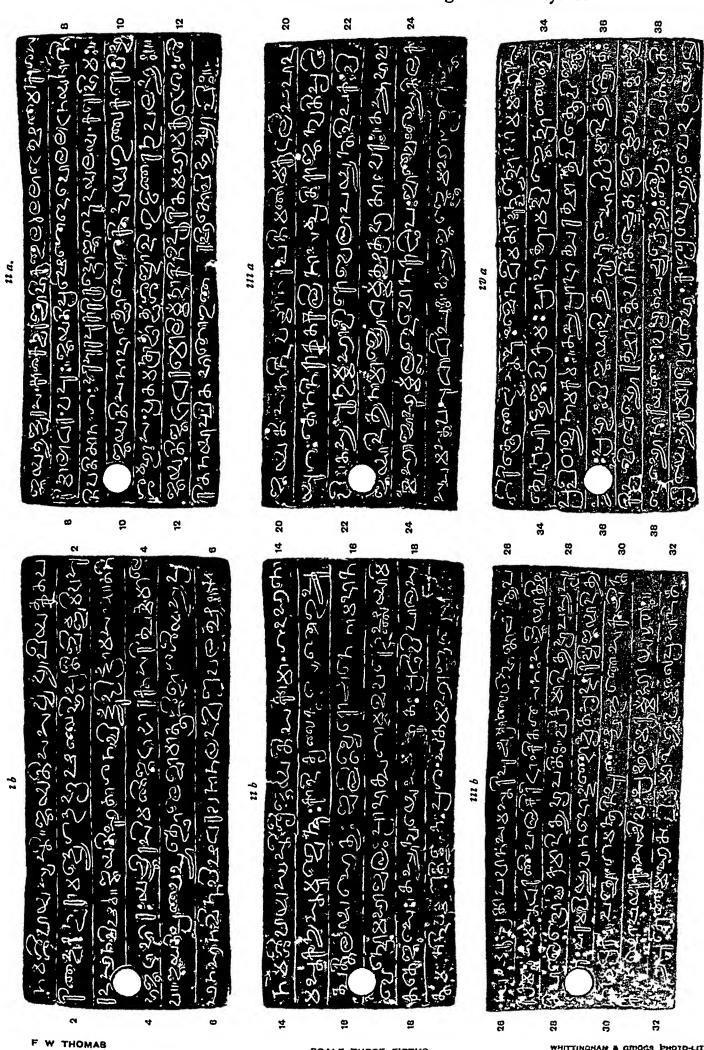
Third Plate , First Side

- 20 Jayati¹⁴ sa Nandiva[r]mmā naiapati-mani-makuta-li(li)dha-păda-
- 21 yugah [1] tēna nirākrita-kalinā samprati rājanvati(ti) prithi-
- 22 vî[h]¹⁵ || [11*] Tasya sünur=mmahä-virō vělā-paryyania-dīpakah [|*] Vi
- 23 jayādītya-nām-ākhyō dharmma-tsha(ksha)trabhrītām varah | [12*] Tasy=ābhava-
- 24 n=mahā-bāhur-Mmalla-dēvō narāthı(dhi)pah []*] Bāna-vamśasya tılaka-
- 25 s=samasta-vasudh-ādhipah [||] [13*] Tasya jajñē mahā-śūrō Ja-

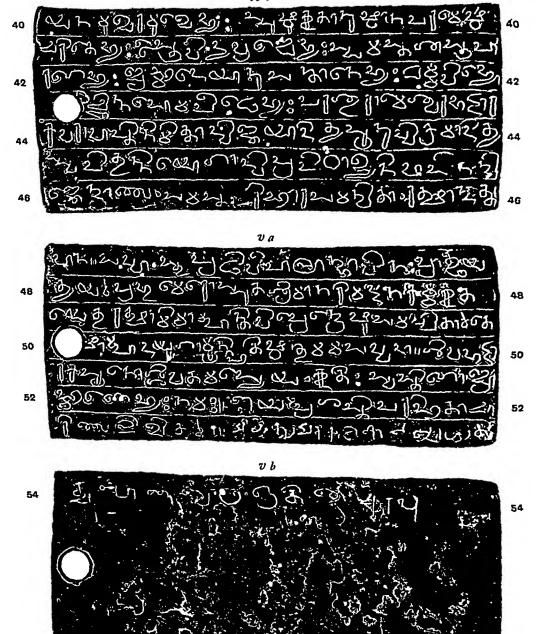
- ² For the sake of the metre, a word like bhoga may have to be inserted after -ah:-
- * Read perhaps pranavasy=ārddhō
- 4 Read perhaps °dā rddhō[or rttho?-F W T] sau
- For the sake of the metre, iakty arddha- may have to be read Read perhaps -arddhas=
- For the sake of the metre, -pūrita may have to be replaced by its synonym -dārita- [and perhaps makufēiah is for makutah But the scansion seems too irregular in many places.—F. W T]
 - 8 Read perhaps gunatva-rahito [or guna-gana, since gunatra is found only in gunas ?—F W I].
 - The metre is wrong here
 - For the sake of the metre, yo may have to be inserted here
 - " The second half of the o of "no is very faintly seen
 - 1. The correct Sandhi "varmm=ēti is precluded by the metro
 - " Road Vijayate on account of the metre

- 12 Cancel the Visarga
- 15 Cancel the Visarga

¹ From two sets of ink-impressions supplied by Rao Bahadur H. Krishna Sastri



BCALE THREE-FIFTHS



Third Plate, Second Side

- yamēruh pratāpavān [|*] samasta-ripu-chakrānām=bhētt=āchintya-pa-26
- 27 rākramah | [14*] Samasta-dharanīpāla-kurīt-āmkita-śāsanah [1*] sa jiyāt=shi(kshi)-
- tıpāl-ēndrő Vıkramādıtya-bhūpatıh | [15*] Vıkramādıtya-bhūpasya sü-
- [n]uh parama-viiyyavan [|*] dor-ddand-oddhrita-srisht-arii=1Vvijayaditya-
- nāma-dhrikh2 | [16*] Panchāmga-mantia-nipunahsh=2shadgunē sakta-chinta-
- kah [[*] nay-opayukta-sachivah Prabhumërur=mmahä-yasah | [17*] 31
- Tasya putrēna mahatā Vikramādityava[r]mmanā [i*] piasādita-32

Fourth Plate , First Side

- Girittrēna dhvasta-duhkhēna dhīmatā [| 18*] Api cha³ [||*] Nandō nāma mahā-sa-
- tvo(ttvo) nripa-rāt=4bhuja-vikramah [|*] piādāt=6giāman=dvij-ondrānām Vi-
- prapīth-ākhya-nāmakamh⁶ || [19*] Tasya prādāt-sa ratshā(kshā)n-tu pittiē vijnā-
- [pya] sah⁷ prabhuh [1*] Vijayāditya-sūnus=sö⁸ Vikramādityaśśrātah⁹ [|
- Kı(kī)drıg-vidhēbhyō ratshā(kshā)n=dattavān=iti chēt(d=) Brahm=ēva patm(dm)-āspa-
- debhye Narayana iva bhrita-sach-chakrebhyahé=10\$iva iva sita-bhüti-38
- priyebhya [h*] Kumara wa Šiv-amk-asrayebhyah (bhyo) veda-tray-adhya-39

Fourth Plate, Second Side

- yana-mukhara-mukhēbhyahs=10sushthu-krit-ānushthāna-Paramēshthi-40
- charitēbhyahs=10traividya-vriddhēbhyahs=10samasta-śāstia-pā-41
- ragebhyah(bhyō) brahmadey-anusantanebhyah(bhyō) dharmma-vi[d*]bhyō= 42
- 43 [v]ichchhinna-somapithebhyah [||*] Parasurāmēsvara-bhattāi a-
- ka-var-āvāpti-nimittād=Vijayāditya-sūnu[1*]=Vvikramāditya-44
- s=sva-pitu[1*]=nmyögåd=Viprapīth-ākhya-nivāsinān=dvi-45
- 46 j-endranam samasta-[pa]ı:Lara-samanvıtam ratsha(ksha)n=datta-

Fifth Plate, First Side

- van || Sa[r*]vvams=tu prithivipalan=bhavinah pra[r*]tthaya-47
- ty=ayam [|*] Prabhumērōs=suta[h*] śrīmān=arī-marddana-karmma-krīta¹¹ [||] [21*] 48
- Ye tu 1atshā(kshā)m=1mām=pānti vipr-ēndrēshu sama[r*]ppitām [|*] te-49
- [sh]ām=pāda-yugā mūnnı(rdhnı)13 tishthantu mama sa[1*]vvadā | [22*] Siva-bhattā-50
- raka-sūnōś=Sivatamasy=tyam kritih [||*] Svasti gō-brā-51
- hmanebhyah(bhyō) namah | Iyam=prasasti[h] Parahit-āchā-
- | A[yu]nuru=13kkādı nellu[m] pat-53 rinā likhitam[h](tā)

5 Read prādād=

¹ Read -dript-arir= [Read त्व ?—F W T]

² Cancel the Visarga

These two words are entered below the line, and the place at which they have to be inserted is marked by a cross or caret (kākapada), of Sir Aurel Stein's Translation of the Rājataranginī, IV, 117 and note

⁴ Road +ad=

[·] Cancel the Visarga

⁷ The syllable sa is entered below the line, read perhaps sat-prabhuh

⁸ Read perhaps sūnur=yyō

Read perhaps stya with utah. 11 Road -Lrst

¹⁰ Cancel the Visarga

¹² After this word the syllable ha is written below the line.

¹⁸ Reul ainnūru=.

Fifth Plate, Second Side.

54 tu ponnum idin puravu [||*]

TRANSLATION.

(Line 1) Obersance to Siva | Hail |

[Verses 1-7 are addressed to Siva]

(Line 14) Obeisance to Siva! Hail! Prosperity!

[Verse 8 is again addressed to Siva]

(Verse 9) (There was) a powerful lord of demons (Dānava), Bali by name, the son of Virochana. He presented at an excellent sacrifice the earth to Krishna of immeasurable lustre!

(Verse 10) In his lineage was born the best of kings, called Nandivarman, whose great power was praised.

(Verse 11) Victorious is that Nandivarman, whose pair of feet was kissed by the diadems, (set) with jewels, of princes. Through him, who drove away (the sins of) the Kali (age), the earth is now (1) provided with a just king

(Verse 12) His son (was) a great hero, illuminating (the earth) as far as the coast (of the ocean), called Vijayādītya by name, the best of just rulers

(Verse 13) His (son) was the long-armed king Malla-deva, the ornament of the Bana race (and) the lord of the whole earth.

(Verse 14) To him was born the powerful great hero Jayamēru, the breaker of the circle of all enemies, (and) whose valour was inconceivable

(Verse 15) Let that king Vikramāditya be victorious, the lord of princes, whose orders were marked (ie bowed to) by the diadems of all rulers of the earth i

(Verse 16) King Vikramaditya had a very brave son, who bore the name Vijayaditya, (and) who uprooted proud enemies by (his) strong arm

(Verse 17) The renowned Prabhumëru knew the spell of five members², his thoughts were occupied with the six measures of politics; (and) his ministers were employed with polity.

(Verse 18) By his great wise son Vikramādityavarman, who propitiated Giritra (Śiva), (and) who removed distress, (this grant was made)

(Line 33) Moreover -

(Verse 19) The noble ruler of princes, Nanda by name, whose arms were powerful, (had) presented to chiefs of Brāhmanas the village called Viprapīṭha by name

(Verse 20.) But Vijayāditya's son, that virtuous lord who was celebrated (by the name of) Vikramāditya, granted a confirmation (of the former grant) to this (village), after having submitted (this matter) to (his) father

(Inne 37) If (you ask) to what kind (of people) he granted the confirmation —to those who were abodes of prosperity (padmā), as Brahmā dwells on a lotus-flower (padma), who supported a circle (chakra) of virtuous men, as Nārāyana (Vishņu) holds an excellent discus (chakra), who were beloved by bright welfare (bhūti), as Siva is fond of white ashes (bhūti), who resided near (the temple of) Siva, as Kumāra rests on Siva's lap, whose mouths resonnded with the recital of the three Vēdas, who practised in a suitable manner the conduct of

¹ Cf verse 3 of the Udayendram plates, above, Vol III, p 78

² Viz the five syllables namaf=Sivaya, "obeisance to Siva!" Cf ll 1, 14. [Paāchānga-mantra is counsel (consisting) of five subdivisions'; see Monier Williams s.v. anga —H K. S]

No 2]

Paramēshthin (Brahmā); who had advanced in (the study of) the three Vēdas, who had mastered all sciences, who (possessed) a series of gifts to Brāhmaņas, who knew the (sacred) law, (and) whose draughts of Sōma were uninterrupted

(Line 43) Because he had obtained a boon from the god Parasurāmēsvara, Vijayāditya's son Vikramāditya granted, at the direction of his father, the confirmation, accompanied by all exemptions (parihāra), to the chiefs of Brāhmanas residing in (the village) called Viprapītha.

(Verse 21) But the destroyer of enemies, that glorious son of Prabhumēru, requests all future rulers of the earth —

(Verse 22) "Let there rest for ever on my head the pairs of feet of those (kings) who protect this confirmation granted to chiefs of Brāhmanas!"

(Line 50.) This is the composition of Sivatama, son of Siva-bhattaraka. Hail! To cows and Brahmanas obsisance! This eulogy (prasasti) was written by Parahit-achari!

(Line 53) The revenue assessment of this (village amounted to) five hundred $k\bar{a}di^3$ (of) paddy and ten $(kala\tilde{n}ju)$ of gold.

No 2—TUMBAGI INSCRIPTION OF THE REIGN OF SATYASRAYA SAKA 926 By Lionel D Barnett

Tumbaga, or, as the name was anciently spelt, Tumbige, is a village lying in lat 16° 34' and long 76° 20', in the Muddebihāl tāluka of Bijāpūr District, and formerly was included in The name is given as "Toombgee" on the Indian Atlas sheet the Pagalatti Three-hundred 57 and as "Tumbgi" on the Bombay Survey sheet 350 It contains a monastery known as "Polayya's Math," at the well of which there is (or was) a stone inscribed with the present record A bad copy was made by Elhot's pandit, and appears in Vol I, fol 17a of the Elhot Collection (Royal Asiatic Society's copy) I now edit the text from good ink-impressions prepared for the late D: Fleet, which are now in the British Museum 4-The stone is a long narrow block, with an upper compartment in front containing sculptures, viz in the centre a linga on a stand, with an upright figure of a votary facing it on the proper right of it, and still further to the right a cow with sucking calf Underneath this is the inscribed area, which seems to include three faces of the slab The first face, containing ll 1-17, is about 1 ft 1 in wide and 3 ft high, the second, containing 11 18-40, is about 10 in wide and 3 ft 7 in high, the third, containing Il 41—end, is about 3 ft 81 in high and 6 in wide, except at the bottom, where it runs out towards the right to a width of $10\frac{2}{3}$ in, enclosing the last two lines—The character is fair Kanarese, somewhat inclined to angularity, with letters varying from 1 in to 12 in in height Its whole tendency is towards the later type, rather than the archaic The cursive v is found only in the ligature rvva (ll 51, 58) —The language is Old Kanarese, except for the concluding Sanskrit verses We may note the sporadic change of m to v in -āchchhādanaiam (1 32) and mahājanavuv= (11 43-4), and the conditionals adade (1 37) and appade (1 45), which all shew a tendency towards the medieval dialect

The record opens (Il 1-8) by referring itself to the reign of Akalankacharita Invabedanga Satyāśraya (*Dynast Kanar Distr*, p 432), while his officer Setti Brahmayya was administering Tumbagi (Il 8-15), and registers gifts to local religious foundations by the latter and a lady named Aychakabbe, with rules for their management (Il 15 ff.).

¹ āchārı, 'an artisan,' 18 a Tamil form of āchārya

² Puravu occurs also in South-Ind Inser, Vol. II, p 386, text line 99, and above, Vol. IV, p 224, text line 9 For its meaning see the Madras Epigraphical Report for 1920, p 96.

The same measure is mentioned in South-Ind Inser, Vol I, pp. 117, 140

⁴ A notice of the inscription has been given by Dr Fleet above, Vol. XII, p. 306.

The date is specified on ll 11-15 as Śaka 926 (expired), Krödlii; Āshādha amātāsyā, an eclipse of the sun This is quite regular The Southern cycle is used, and according to the Surya-siddhanta (true system) the tithi quoted was connected with Thursday, 20 July, A.D. 1004, ending 3 h 33 m after mean sunrise (for Ujjain) On that day there was an eclipse of the sun at 3 h 18 m after sunrise by Lanka time Mr R Sewell, who has kindly examined this date at my request, remarks that by the true system of the Arya-siddhanta the result is the same, but that by the mean system of the Arya-siddhanta the fithi was connected with the previous Wednesday, 19 July

The place-names mentioned are: the Pagalatti Three-hundred (1 10), the Tumbigo Agrahara (1 11), and Kalkere (ll 23-4) On Pagalatti I may refer to the remarks of Dr Fleet above, Vol XII, p 306 ff, where he identifies it with the district variously called Hagaritige, Hagarittage, or Hagaratage and connected with the village formerly designated Hagaritage, Hagalittage, or Hagarittage, and now known as Hagarattage, Hagaritige, Hagarıttıge, or Hagarıttıgı, ın the Shorapur tāluka of Gulbarga District in the Nizam's Territories Kalkere cannot be identified with certainty, there are several places of the name.

TEXT 1

- Svastı samasta-bhuvan-asra-
- ya Śri-Pri(pri)thvi-vallabha
- 3 mahārājādhīrāja para-
- 4 mēśvara paramabhatţārakam
- 5 Satyaśraya-kula-tilaka-
- 6 n=Akalamkacharitan=Iriya-
- 7 bedamgam śrimat Satya-
- 8 śraya-dēvara pāda-padm-ō-
- 9 pajivi Setti Brahmayyam
- 10 Pagalattı 300rara balı-
- 11 ya Tumbige-agrahara Sa-
- 12 kha-varisha² 926neya Krō-
- 13 dhi-samvatsarad=Āshāda(dha)d=amā-
- 14 vāsyeya[m]duve sūryya-gra[ha*]-
- 15 nadandu Setti Brahmayyam Bra-
- 16 h[m]ēsva(śva)ra-dēvargge bitta ke-
- 17 y=matta 200 ada *
- 18 parekāra-süle-
- yargge kotţa key=ma-19
- 20 tta 30 mata(tha)kke kotta ke-
- 21 y=matta 50 dēvālaya-
- 22 nimittam kotta ke-
- 23 y=matta 120 [|*] Kalke-
- 24 reya Gennayyana
- 25 magal=Aychakabbe ta-
- 26 mma mānyad=olage mae
- 27 ta(tha)kke kotta key-matta
- 28 50 antu mata(tha)kke ma-
- tta 100 [[*] Inn-alliya pha-29
- ladalu brahmacharyya-

```
31
    m=ulla tapaśviya 5
32
    rggel asan-āchchhādanavam
    nadeyısuvar=allı-
34
    y=orvvar=pradhanar=appa-
35
    vargge uttamāgra[m*] na-
36
    deyısuva[r*] brahmacha-
    ryy-ādı-lopam=ādade
37
38 pora-vadisuvar=[u]-
39 ttamar=appar=amt=appa-
40 r=1 sthitiyol=1 dharmmamam
41 pratipālisuva-
42 r=ūr-odeyarum
43 mahājanavu-
44 v=idan=upēkshi-
45 sidar=appade gu-
46 na-dosham=ava-
47 [ra]n=ērugum ||
48 Gr-odeyara-
49 l=akke mahāja-
50 nadol=akke ā-
51 van-orvvan=i sthi-
52 tryol=allade
53 perat-ondu sthi-
54 tiyol kidi-
55 suv-avam śvāna-
56 gā(ga)rdabha-chāndālam
57
   same(ma)ya-bāhıram [||*]
58 Sarvvathā pālanīya-
59 m tta(tu) tad-dēśas=tais=tu
60 bhūmipai[h*] [i*] ya-
61 sya yasya ya-
62 dā bhūmi[s*]=tasya
63 tasya tadā phalam [||] [1*]
64 Sva-dattām para-da-
65 [t]ta[m v]a yo ha-
66 rēta vasumdhar[ām]
67 shashthim varisha2-sa-
68 hasrāni vishthā-
69 [y]ām jāyatē krimih [||* 2*
70 [Ma]mgala mahā-śri ||
```

TRANSLATION.

(Lones 1-9) Setti Brahmayya, who finds sustenance at the lotus-feet of—hail!—the refuge of the whole world, darling of Fortune and Earth, great Emperor, supreme Lord supreme Master, ornament of Satyaśraya's race, Akalankacharita Irivabedanga Satyaśraya-dēva —

(Innes 10-23) (While governing) the Agrahara of Tumbige, forming part of the Pagalatti Three-hundred, during the last lunar day of Ashadha in the cyclic year Krödhi,

¹ Read 5 tapasviyargge.

² Read shashfir=varsha-.

the 926th (year) of the Saka era, during an eclipse of the sun, Setti Brahmayya granted for the god Biahmēšvara a field, 200 mattar, for the monastery he granted a field, 30 mattar, for the monastery he granted a field, 50 mattar, for the benefit of the temple he granted a field, 120 mattar.

(Innes 23-29) Aychakabbe, daughter of Gennsyya of Kalkere, granted for the monastery out of her own honorary estate a field, 50 matter Thus (there are) for the monastery 100 matter

(Innes 29-47) Lakewise out of the revenues of this land they shall provide food and clothing for the 5 ascetics living in celibacy. In the case of any superiors of this place, if there should be committed a breach of celibacy of the like in conducting the highest offices, they shall expel (them). The leading men shall be such. They shall preserve this pious foundation, under this constitution. If the majors of the town and the burgesses should have neglected it, guilt shall accrue to them. Any person, whether of the majors of the town or of the burgesses, who should violate this constitution or any other constitution, (will become) a dog, an ass, or a Chandala, an outcast from society

(Verses 1 and 2 Sanskrit formulæ)
(Line 70) Happiness great fortune!

No 3-A NAGA FIGURE IN THE MATHURA MUSEUM

BY Y R GUPTE, BA

On page 18 of the Annual Progress Report of the Archeological Survey of India, Northern Circle, for the year 1908-1909 an inscribed pedestal from Rål (No 45) is mentioned. The upper part of the image must have been found since I examined the sculpture at Mathura. It represents a Någa standing between two Någis. The height of the sculpture is 4'2'. The inscription measures about 2 ft in breadth and 7 in in height.

The image came from a mound near the village of Bhadāl about six miles from Mathura. From local enquiries it appeared that people from the neighbouring villages used to visit the spot and vows were made to the desties by barren women. When they got sons, they resorted to the place for tonsuring their hair.

The Nāga in the centre has a canopy of seven hoods with forked tongues, as is usually the case with the other Nāga images of Mathura, and is similarly dressed. The threefold triangular necklace is a little damaged on the breast. We can see the bracelet on the right wrist, and a similar one on the left is hidden by the upper garment. The position of the hands is similar to that of the Nāga figure from Mathura city of the Kushāna year 52 (A S R for 1908-9, Plate LIV). The left hand holds a small vessel; and a lotus bud is visible in the right. The Nāgīs are dressed in garments of the same stuff as the Nāga and have the same appurtenances in their hands. Beneath the feet of the deities were short inscriptions, now much defaced, which probably contained their names. The vestiges that remain favour this view.

On the pedestal are five males and five females and also two boys with folded hands. They are worshippers. The right hand of the man to the extreme proper right is gone. The male to the left and the female to the extreme proper left have their hands folded, the others holding lotus stalks in their right hands. On the lower part of the pedestal is an interesting inscription

^{1 [} Uttamagram means 'sumptuous meal', see South Indian Inscriptions, Vol III, Part III, p 256, footnote
1. (The meaning is One of the superior members of these will be provided with a sumtuous meal'.—H. K S]



hom a photograph kindly supplied by Mr. H. Hargicawis





of three lines, of which the second and third are much damaged, making the decipherment of a part of the third line impossible

Several images of Naga deities, both inscribed and without inscriptions, have been found in Of these the following are dated -

Image of Dadhikarna, of Samvat 26 va 3 di 5 (Ind Ant, Vol. XXXIII, p 102, and Ep Ind, Vol I, pp 380 f and 390, No. XVIII, and Dr. Vogel's paper in the Arch Survey Report for 1908-9, pp 159 ff)

Naga image of the year 40 of Huvishka, in the second month of winter, the 23rd day (Dr. Vogel's catalogue of the Arch Museum at Mathura, No. C 13, pp 88-9, A S R. for 1908-9, p 161)

Naga 1mage of sa 52 va 3 di 25 (Dr Vogel's catalogue of the Arch. Museum at Mathura, p. 91), Arch Survey Report for 1908-9, p 161

Besides, there is a fragment which Dr Vogel assigned to the 3rd century of the Christian era (Dr Vogel's catalogue of the Arch Museum at Mathura, p 90, A. S. R for 1908-9.

The image described in this note dates from the year 8 of the Kushana era and is the earliest dated Naga one at Mathura

The palæography does not call for many remarks. The general characteristics are dealt with in Dr Bühler's Indian Palæography, edited by Dr J F Fleet, p 41. The peculiarities observable in the present inscription are these -(1) The kha is triangular below, but its hook is large, (2) the upper horizontal stroke of ra is turned into a curve, while the lower is split up into lines; (3) ta in the 3rd line shows a loop, (4) the lower part of da is more slanting than in all examples given by Dr Buhler, (5) va is rounded on the left, (6) the left limb of sa is never turned into a loop

TEXT.

- L 1 Mahārājasya rāj-[ā]tīrājasya [Shāhi] Kānīkhasya Sa² 8 grī 4 dī 5
- L. 2 as[yā]m p[ūrvv]āy[ā]m bhagavatah [Bhūmi-nāga]sya (1) pukshirini cha pra[ti]-
- . putras[y]a , turasya niya[mada]kısya [sarvva]sat[v]a hı(hıta)-su L 3 [shthāpitō (sukhārtham) (2)

REMARKS

(1) There can be little doubt about the reading Siāmi-nāyasya I have examined the stone in all lights and shades (2) Hi and su at the end of the third line stand for hita-sukhārtham. This abbreviation is due to want of space

TRANSLATION.

In the year 8 of the great king, the king of kings the Shahi Kanikkha in the fourth (month of) summer, on the 5th day on that (date specified as) above, a tank and a garden . otura, son of . of the holy Bhumi naga was founded for the welfare and happiness of all sentient beings

The Prakritized form Kanikkha deserves notice The form with the long a in the first syllable has already been observed in two inscriptions, namely those on the statue of Kānishka

¹ From the original

It appears that the engraver first cut sya, but afterwards found out his mistake and deeply engraved only ea.

himself and the Bodhisattva statue of the Kushana year 3, in the Sarnath Museum Bhummaga is first met with in this record.

No 4-A VAKATAKA INSCRIPTION FROM GANJ.

BY V S SUKTHANKAR, PH D

This inscription, which is now brought to notice for the first time, was discovered by my friend Baba Rakhaldas Banerji, Superintendent, Archæological Survey of India, Western Circle, in 1919, during one of his tours of inspection in Central India. The excellent estampages from which the accompanying blocks have been prepared were made under his direct supervision, and very kindly placed by him at my disposal for publication

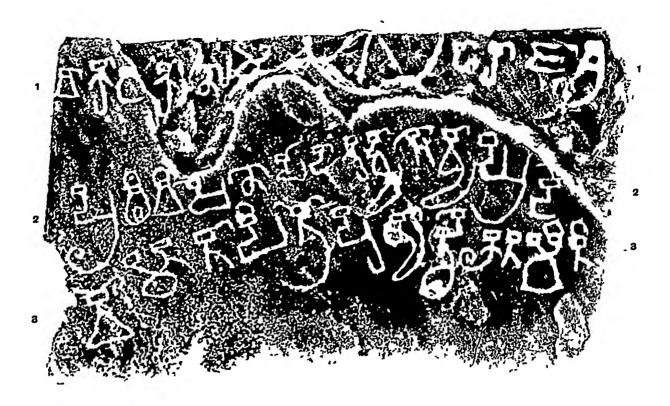
The inscription, Mr Banery tells me, is engraved on a detached slab of stone which he found lying at the bottom of a dongā, adjoining a hill called Maluhā-tongi near Ganj in the Ajayagaḍh (Ajaigarh) State in Bundelkhand Close by is a ruined stone structure, probably a dam to hold the waters of the stream passing along the dongā The find-place of the record is not far removed from the ruined city of Kuthārā, where Cunningham discovered in 1883-84 the Nāchanē-kī-talāi inscription, which was first brought to notice by him, in 1885, in Archæological Survey of India, Vol XXI, pp 97 f, and re-edited by Fleet in Gupta Inscriptions, pp 233 ff and Pl xxxiii B The Ganjînscription, like the one discovered by Cunningham, is one of the oldest records of the Vākātaka dynasty, and as such is worthy of being carefully preserved

From the subjoined transcript it will be seen that the text of our inscription is practically identical with that of the Nāchanē-kī-talāi record of the reign of Mahārāja Prithivishēna, edited by Fleet in Gupta Inscriptions, it differs from the latter only in the length and the number of lines, and in the spelling of a couple of words. But our inscription is in a much better state of preservation than that edited by Fleet, at all events the stone has yielded an impression far superior to the one from which the block accompanying Fleet's article was prepared. Consequently we can study the forms of the letters in the subjoined facsimile much better than in that of the Nāchanē-kī-talāī version. Moreover, the writing of this inscription being perfectly distinct, we can give a transcript which is more reliable, and which at the same time discloses certain minor maccuracies in Fleet's transcript, errors which even then could have been avoided by a more patient study of the available material.

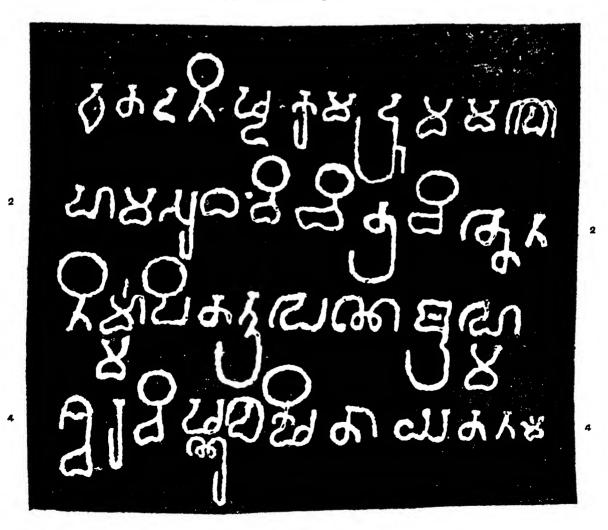
The writing covers a space about 25" broad by 12" high In the centre of the first line of the inscription there is a sculpture of a wheel, of which only a part is visible in the facsimile The average size of such letters as m_i p and v is about 2^v .—The characters belong to the 'southern' variety of alphabets, of which the distinguishing features, in our inscription, are the hooks at the lower ends of the verticals of L and r In particular, we may say that the letters are a specimen of the Central Indian alphabet of the period, which on account of the peculiar 'box-headed' tops of the letters is known as the 'box-headed' sub-variety of the southern alphabet 1 In our specimen the boxes are very conspicuous, and uniformly hollow. are unequal in size and uncouth in appearance It may be added that they betray a conscious effort to substitute angles for curves in the configuration of letters. The letters t and n are sharply distinguished from each other the latter has always a knot at its lower end. The language is Sanskrit, and the inscription is in prose -As regards the orthography the only point calling for remark is the phonetic doubling of the d of dh, in od-a(m)nuddhyatoo (1 2), before y, and of the t of th, before r, in punya-rtthe (1 3).

¹ See Bühler, Indische Palaographie, p. 62.

1. A Vakataka Inscription from Ganj.



2 Mandagappattu Inscription of Vichitrachitta



	,		
-			
	-		
		,	
			-

The inscription, which is a record of the reign of Mahārāja Prithivishēņa [I] of the Vākātaka family, states merely that a feudatory of his, Vyāghradēva by name, had made something or other for the sake of the religious ment of his parents. The exact nature of this act of plety has been left unspecified, just as in the other version discovered by Cunningham. The silence of these records on the point leads us to infer that the slabs on which the inscriptions are inscribed must have been built into that the making of which they were intended to record

Our information regarding the Vākātaka dynasty is unfortunately very scrappy. All the important events in its history known to us have been succinctly summarized by Kielhorn¹ in his article on the Bālāghāt plates of Prithivishēņa II, we can even now add nothing of consequence to what has been said there. We do not possess exact dates for any of the kings of this family, nor can we form any clear idea of the extent of the country ruled over by them. Regarding Prithivishēna I we know that he was the son of Rudrasēna I and the great-grandson of Pravarasēna I, the latter being either the very first king or one of the early kings of this house. It should seem that the Vākātaka king at whose hands the 'lord of Kuntala' had suffered defeat, as recorded in the Vākāṭaka stone inscription at Ajantā,² was this same Pṛithivishēṇa. Beyond these few facts we know nothing of much consequence regarding the king referred to in our record

About Vyāghradēva, the feudatory of Prithivishēpa, we know still less Indeed, Vyāghra appears as the name of chieftains in several well-known inscriptions, 3 but it is not possible to identify our Vyāghradēva with any of them

Bühler⁴ assigns the copper-plates of the Vākātaka Pravarasēna II., the grandson of Prithir vishēna I, to the fifth or sixth century AD, it is not known to me on what grounds. I have examined the inscriptions of the Vākātaka dynasty and compared them with the allied inscriptions engraved during the time of the Guptas, of the kings of Šarabhapura, of Tīvara, of Kōsala and of the early Kadamba kings, without being able to arrive at any definite conclusion regarding the age of the Vākātaka inscriptions. Bühler's date, however, appears to me to be far too early. My impression is that there can be no objection, on palæographic grounds, to assigning this record of the Vākātakas to as late an epoch as the seventh century AD. I conclude this short notice by drawing attention here to the remark of Kielhorn that the Bālāghāt plate of Prithivishēņa II, who was the son of the great-grandson of the Prithivishēņa of our inscription, "may be assigned with probability to about the second half of the eighth century A.D."

TEXT.10

- 1 11Vākātakānā mahārāja-śri12-
- 2 Prithivishena-pad-a(m)nuddhyate Vyaghrade:
- 3 võ mätäpitrö[h*] 19puny-ärtthe 14kritam=iti [||*]
 - ¹ Above, Vol IX, pp 268 f

- ² Arch Surv. West Ind, Vol. IV, p 124, verse 8.
- * Kielhorn's Last of Inscriptions of Northern India, Nos. 270, 387 and 509
- 4 Indische Palæographie, pp 62 f
- 5 Corpus Inscriptionum Indicarum, Vol I, Nos. 2-8.
- Gupta Inscriptions, Nos 40 41 Ibid, No. 81
- Ind Ant, Vol VII, pp 35-7

 Above, Vol IX, p 270
- 10 From a set of estampages prepared and kindly lent to me by Mr R D Banerji
- 11 Read Vākāṭakānām Fleet in his transcript has wrongly spelt this word with the dental n in Gupta Inscriptions, Nos 53 54
 - 12 Read frf
- 18 Read puny ārtthē. Here also Fleet has wrongly transcribed the word, both as regards the dental n and the case ending In Cunningham's version the word is spelt exactly as here.
 - 16 The construction is faulty The verb should be in the active voice.

TRANSLATION.

Vyāghradēva, who meditates on the feet of the Mahārāja the illustrious Prithivishēņa, (of the family) of the Vākātakas, has made (this) for the sake of the religious ment of (his) parents.

No 5-MANDAGAPPATTU INSCRIPTION OF VICHITRA-CHITTA By T A GOPINATHA RAO, M A, TRIVANDRAM

The small village of Mandagappattu is situated in the Villapuram Taluka of the South Arcot District and is about five miles south-west of Peranai, a station on the main line of the In a small hill near Mandagappattu is cut out a shrine, on the façade South Indian Railway of which is engraved the inscription which is edited below. The shrine has at its back end three niches, which are dedicated to the gods Brahma, Isvara and Vishnu respectively On the panels on either side of this shrine is carved a drara-palaka; the figure on the right very much resembles those which are found in the rock-cut shrines attributable to the Pallava king Mahēndravarman I. From this and other considerations based upon its architectural peculiarities Mons G Jouveau-Dubreuil has attributed its excavation to Mahondravarman I of the front view of this rock-cut shrine is given by him in his Pallava Antiquities, Vol I, PI XXVIII The cave was visited by the staff of the office of the Madras Epigraphist, and the Regarding this cave Mr. Venkayya wrote in his Annual Report inscription was copied in 1905 on Epigraphy for that year thus -" The cave at Dalavanur in the Tindivanam Taluka consists of a shrine and a mandapa in front of it, thus resembling to a certain extent the upper cave at Trichinopoly, while that at Mandagappattu (mentioned in Mr Sewell's List of Antiquities. Vol I, p. 209) is a smaller one, which looks as if it had been left unfinished There is only one inscription in the Mandagappattu cave, which is so much damaged that the name of the king cannot be made out. To judge from what remains of it, we may say that it must also belong to the Pallava period And, as we know that it was Mahendravarman I of that dynasty that excavated almost all the hitherto known monolithic caves in the Tamil country, we may not be altogether wrong, if we suppose that the one at Mandagappattu also came into existence during his reign" Depending upon probability, Mr Venkayya hazarded a guess which has now turned out to be quite correct. It is time that the shrine was excavated during the reign of Mahendravarman I, but no serious attempts were made by the Madras Government Epigraphists at deciphering this epigraph The credit of having made out the name of the king belongs to the French Professor, Mons G Jouveau-Dubreuil, of Pondicherry He has visited Mandagappattu more than once to obtain eye-copies and mechanical impressions, as also to acquire any further knowledge by studying the inscription directly from the stone His zeal and perseverance have been richly rewarded by his discovery of the name of the king in whose reign the shrine was excavated At this stage he sent me the impression of the inscription and his eye-copy, so that I might complete the reading of the document, translate and annotate it. When my notes, translation, etc, went to him, it had become impossible for him to edit the inscription himself, for he had to proceed to Cochin China on military duty He therefore sent me a good photograph of a very carefully prepared eye-copy and asked me to edit the epigraph as early as possible From the mechanical impression kindly lent to me by Mons Jouveau-Dubremi and the photograph of the eye-copy prepared jointly by me and that gentleman I edit this important inscription below

The record consists of four lines of writing in Grantha characters of the first half of the 7th century AD, and is a Sanskrit verse in the Giti metre. As has been remarked by Messrs. Venkayya and Jouveau-Dubreuil, the inscription is somewhat badly damaged, and it is only with difficulty that one can read it successfully, but one need not on this score imagine that the

reading is fauciful. The inscription states that the shine was caused to be made by the king Vichitra-chitti for the accommodation of the three deities Brahma, Isvara and Vishnu, without using in its construction bricks, timber, metal or mortal This short record is of importance in more ways than one. The most important information conveyed by it is that before the time of Vichitra-chitle bricks, timber, metal and morfar were the common temple building materials Evidently the basement and walls of the buildings were of brick work, plastered with chunam. and the superstructures were composed of wood work held in position by the use of metallic This, in fact, is even to this day the mode of constitution of temples on the nails and bands Malabar Coast It is difficult to find a single temple in Southern India which belongs to a date prior to the 7th century of the Christian Era One would naturally be inclined, therefore, to surmise that temple huilding was never in vogue before that century. But immediately after this period we see a number of temples which have sprung into existence, and this also seems to lend weight to the surmise that no temples were built before the time of Mahendiavaiman I in The statement made in this inscription that Mahendravarman did not employ Southern India bricks, timber, metals and mortar clearly wairants us in drawing the conclusion that the temples built before his time were all of such easily perishable materials as bricks, etc., that they were all runed in course of time, and that this is the first rock-cut shrine of his. This is clear from the special mention of anishtaka, etc., in the case of this shine. It is impossible for a number of temples to have come suddenly into existence from the beginning of the 7th century, unless the building of temples had been practised long before

We know from the inscriptions of the cave temple at Pallavaram that Vichitra-chitta was one of the birudas of Mahendravarman I (see Pl XXI in the Pallava Antiquities of Mons G Jouveau-Dubreuil, wherein the name Vichitra-chitta is clearly legible, side also for the biruda Vichitra-chitta, p 74, para 14, of Ep An Rep for 1909). It is, therefore, patent that the shrine was caused to be excavated by Mahendravaraman I

Again, the biruda Vichitri-chitta means 'the curious or inventive-minded one' One can easily concede to the king Mahēndravarman the title 'inventive-minded,' in so far as he avoided bricks, etc., commonly used by all in the construction of their buildings, and devised quite a new path, namely the cutting out of rock-temples, which needed neither bricks, timber nor mortar His country extended far north of the river Krishnä, where he must necessarily have seen some of the earlier rock-cut temples and so have introduced into Southern India the new style of cut ting temples in rock. That he was the first to introduce into Southern India the method of excavating temples in the solid rock is certain; for we do not find even a single rock-cut shrine which belongs to a time before the reign of Mahēndravarman. We know of no less than fifty rock-cut shrines in Southern India, not one of which is earlier than the time of this Pallava king. In fact, the art of cutting temples out of rock was contemporaneous with the Pallava dynasty and disappeared after them.

The birudas of Mahladravarman are not more boasts, each of them has a meaning which is based upon some act done by him. We have seen that the biruda Vichitra-chitta is assumed by him for his invention of a new method of raising temples. Similarly, the biruda Matta-vilāsa is, in fact, indeed due to his having composed the pleasant little burlesque the Mattavilāsa-prahasana, in which he ridicules an actual matta or madman, a drunken Kāpālika and meat enting Bauddha Bhikshu. Mention is made of this burlesque in his inscription found in Māmaudūr,

[[]See South-Indian Images, Introduction, pp 1 f -H K S]

The following extracts from this work will show that it was the composition of Mahendravarman

स्त्रधार —भवति । यूयताम् । पञ्जवनुःसध्यणिमञ्जलनुःसप्यंतस्य सर्वनयविजितसमससामन्तरुः श्राखण्डल-समपराक्षमियः श्रीमिष्टमातुष्ठपदानिभृतिपरिभृतराजराजस्य श्रीसिष्टविणुवर्मणः प्रत्रः शत्रुपड्यानियण्डपर परिष्ठतपरतन्त्रतया मद्दाभृतस्थमां मद्दाराज श्रीमहेन्द्रविक्रमक्षमां नाम ।

The birudas Avani-bhājana, Guna-bhara, Matta-vilāsa and Satin-malla are also introduced ingeniously in the play, these, we know, are the birudas of Mahöndravarman I.

the portion where it occurs is somewhat damaged, but the name of the work is not broken, the passage runs thus Mattavilāsādi-padam=prahasan-ōttamam¹ and in the other fragments of the inscription we see that mention is made of poets like Vyāsa and Vālmiki, as also of tālas, etc, of music Thus then each biruda of Mahēndravarman appears to have been bestowed on him or assumed by him for some ostensible reason. The biruda Sankīrna jāti² of this king is rather curious, it means 'of mixed caste.' Perhaps the paients of Mahēndravarman were of different castes. The significance of the other birudas will become patent as further researches are made

It is interesting to note that at the time of Mahendravarman the three deities Brahma, Siva and Vishnu were enshimed together in the same temple in adjacent niches consisting of Brahmā, Vishnu and Šiva is called Hari-Hara-Pitāmaha or Dattūtrēya Elements of Handu Iconography, Vol I, pp 251-256, as also Pl LXXII, fig. 1 of the same volume) At Mahabalıpuram also there exists a Trimurti cave, but, strangely enough, the cell which is supposed to have been dedicated to Brahmā is occupied by a figure which has only one The figure of Brahma ought, according to the agamas, to be always shaped with four face faces, and in practice also we find that three faces are always shown in sculpture, the fourth being supposed to be at the back of the figure In spite of the fact that the figure in the Mahabalipuram rock-cut shrine has only one face Di Vogel in his Iconographic Notes on the Scien Pagodas, contributed to the Director-General of Aichmology's Annual Report for 1910-11. identi-Prof Jouveau-Dubreuil has sent me a note fies the figure with Brahmā (see page 58) containing his own explanation concerning this image for publication here, which I reproduce "The Trimurti cave at Mahabalipuram is formed of three cells, the one on the right contains an image of Vishnu, and the middle one an image of Siva It is, therefore, but natural to suppose that the left cell contains an image of Brahma I was the first author to remark (vide Archéologie du Sud de l'Inde, Vol II, Pl XVIII B) that the god in the left cell has only one head and so could not be identified with Brahmā I have thought fit to affirm that this unknown god is Subrahmanya, who is represented also on the ground-floor of the Dharmaraia Ratha³ (Archéologie du Svd de l'Inde, Vol II, Pl XVIII B) However, the problem why the trınıty Subrahmanya, Sıva and Vıshnu is found in place of the usual trinity Brahma, Vishnu and Siva has remained till now unsolved I believe I shall be able to explain why Subrahmanya 18 substituted for Brahma in the group of the trinity at Mahabalipuram Mr. T A Gopinatha Rao says in his Elements of Hindu Iconography, Vol II, Part II, page 439, 'Brahma-sasta: This is the aspect of Subrahmanya in which he put down the pride of Brahma by exposing his He should be represented with a single face and four arms; he should ignorance of the Vēdas have only two eyes In the back hands there should be the alshamālā and the lamandalu,4 and the front hands should be held in the varada and abhaya poses. The colour of Brahma-sasta should be the red of the lotus flower' If we note that the image of Subrahmanya in the Tramurti cave wears on its breast a double chaplet of rudrāksha beads, and that at the entrance to the sanctuary there are two personages dressed as Sannyāsins and having pointed beards, we shall conclude that the sculptors of Mahabalipuram have put Subrahmanya in the place of

¹ This fact was also discovered by Prof Jouvean-Dubreuil see his Pallanas, p 38

² [Sankīrnajātı is the name of a variety of musical time Perhaps Mahēndravarman I held this biruda as an inventor of this method of keeping musical time.—H. K S]

Behind the rock bearing the Trimurti shrine are executed the figures of a peacock, an elephant and a monkey, carved in half relief We know that the peacock is the characteristic vehicle (rāhana) of Subrahmanya. The elophant is generally as ociated with the temple of Sāstā, and is here perhaps intended to show that the image is not the Brahma sāstā [Temples of Traipurushadēva are found dedicated to Sun, Siva and Vishnu. Why should

⁴ Dr Vogel takes the objects in the back hands as a flower and a ring, neither of which is right. The hands carry only a kamandals and an akshamālā, as required by the āgamas.

Brahmā because they have placed there Brahma-śāstā, a deity superior to Brahmā in his knowledge of the Vēdas I think fit to draw attention to the existence of the trinity consisting of Subrahmanya, Šiva and Vishnu and also to explain it with the help of the above-mentioned excellent work of M R Ry T A Gopinatha Rao "1

TEXT.2

- 1 एतदनिष्टकसद्गर्म[सत्तो]-
- 2 इसइधं[विचिन्नचि]त्तेन [1º]
- 3 निर्मापितस्प[ण] ब्रह्मे-
- 4 श्वरविप्णुल[चि]तायतनम् [॥*]

TRANSLATION.

This brickless, timberless, metalless and mortarless temple, which is a mansion for (the Gods) Brahmā, Isvara and Vishnu was caused to be created by the king Vichitra-chitta.

No 6-THE FIRST ARYA-SIDDHANTA.

MEAN SYSTEM

(A continuation of the author's "Indian Ohronography")
BY ROBERT SEWELL, I C S (RETIRED).

303 It has long been known that in earlier years the Panchang Brahmans in India framed their local almanacs on calculations made by the use of the mean, as opposed to the true or apparent, motions of the sun and moon. The change from the mean to the true systems of calculation was advocated by Ślipathi (AD 1040), and the latter system may have been adopted in some places about that time, becoming more general from about AD 1100 onwards India, however, is a very conservative country, and the late. Dr. Fleet was of opinion that the mean system may have been adhered to, in some tracts at least, till a far later date

304 With this opinion in mind I have prepared the Tables which follow, so as to cover the period of nine centuries from Āryabhaṭa's date, KY 3600 (AD 499-500), to 4500 (AD 1399-1400) It would be well if all dates of inscriptions that have hitherto been set aside as irregular by epigraphists could be re-examined, seeing that the difference between the two systems of the Ārya Siddhānta constantly leads to differences in the computed positions of the sun and moon on the same civil day, and consequently to differences in the almanac, let alone the differences caused by the use of different Siddhāntas

Thus, to give an example The civil day, Monday, 21 October AD 1090, was by the Arya Siddhānta true system described as "Monday, 25 Tulā, nija Āśvina kr 10," while by the mean system it was "Monday, 27 Tulā, Kārttika kr 10" Thursday, 31 Oct, in the same year was by the true system "Thursday, 5 Vrišchika, Kārttika šukla 6," while by the mean system it was "Thursday, 7 Vrišchika, Mārgaśira šukla 5"

305 The present Tables are based on the First Ārya Siddhānta as amended by Lalla The principal Table LXXVI is framed on the lines of the *Indian Calendar*, Table I, so as to meet the convenience of epigraphists who have become accustomed to the use of that work. The numbers of the columns are made to correspond in both Tables

Results of calculation carried out by the present Tables will be found to correspond with those worked by use of Professor H Jacobi's skeleton Tables published in Vol XI above There is no need for me to dwell on the great services he has rendered to the cause of Indian history and epigraphy These are well known All I have done is to follow in his footsteps,

¹ This note is reproduced here exactly as it was sent by Mons G. Jouveau Dubrouil, no corrections have been effected in it

^{2 [}For Plate see the article on 'A Vākātaka Inscription from Gang.'-F W T]

verify his figures to the best of my ability and apply the results to practical use. Any liftle differences that exist between us have been fully set forth and their cause explained

Elements Arya Siddhanta, mean system

- 306 (1) The length of the mean sidereal solar year is 365d 6h 12m 30°, or 365d 2586805
- (u) For the sun's mean motion per day, hour, etc., see Tables XLIII, XLIV, above, Vol XIV
- (111) The distance of mean moon from mean sun (our a), measured in 10,000ths of the circle, 1 e 10,000ths of the mean synodical revolution of the moon and evoluting 12 whole revolutions, increases, during one sidereal solar year, from 0 to 3088:231484714. That is the advance of a in the year. Table LXIV A above, col 3, shews this advance per day, and Table LXV the advance per hour, etc.
- (iv) The value of a in mean reckoning corresponds to that of t, the tithi-index, in true reckoning. It shows what mean tithi was current at the moment in quertion! In general calculation by the Tables this moment is the moment of mean sunrise at Lanka, taken as 6 A M
- (v) In reckoning by 10,000ths of the circle the advance of a in one mean solar month is 307 352623726
- (vi) Each mean solar month consists of 30d 10h 31m 2½s. The collective duration from the moment of mean Mēsha-samkrānti (the beginning of the mean solar year when the mean sun is at celestial long 0°) to each separate samkrānti, or the moment when the mean sun enters each of the signs, is given in Table LXXVII
- (vii) The length of each mean lunar month is 29d 12h 44m 2a 79 or 29d 530587946, during which the mean moon's distance from mean sun increases, in our circle reckoning, from 0 to 10,000. The length of one mean tithi, or one-thirtieth of the mean lunar synodic month, is 23h 37m 28a 09, or 0d 984352931, during which, in circle reckoning, the increase of a is 383 3
- (viii) The $s\bar{s}dhya$, or time-difference between the moments of arrival at colestial long 0° of the true and mean suns, which moments are known respectively as the true and mean Mcshasamkrāntis, is 2^d 3^h 32^m 30^s , true Mēsha-samkrānti being the earlier

The time of occurrence of mean Mēsha-samkrānti in every year is given in Table LXXVI, cols. 13 to 17

- (1x) The samvatsara name of the solar year is the same by both true and mean reckonings, except in the years AD 564-5, 905-6, 990-1, 1246-7 and 1331-2. A special footnote is appended to the main Table LXXVI in each case
- (x) There can be no suppression of a lunar month when calculation is made by the mean system, for the length of a mean golar month is greater than that of a mean lunar month, so that two mean solar samkrantis cannot take place within the limits of one mean lunar month
- (xi) Let it be noted that no intercalation of a lunar month can take place unless, at mean sunrise of the day on which mean Mēsha-samkrānti took place, the value of a is more than 6280 4892, or unless at the moment of mean Mēsha-samkrānti the value of a is more than 6619 1211, the latter value being 10,000—3380 8789, the total increase of a from Mēsha- to Mina-samkrānti, and the former being 6619 1211—338 6319, the latter value being the increase of a in 24-hours

The 19-year intercalation cycle

307 (See Indian Calendar, § 50, p 29) By the mean system the cycle-sequence is found to work with almost perfect regularity. After four successive intercalations at intervals of 19 years each the intercalated lunar month gives way to the month preceding it. But there are

¹ The equations of sun and moon are not taken into account in mean reckening.

two exceptions in the nune centuries, embraced nu Table LXXVI. Between A.D. 751 and 827 there is a run of five intercalary mean Bausha months, and between A.D. 1242 and 1318 there is a run of five intercalary mean Āsvina months.

In eleven instances the names of the mosn intercalary months given in Table LXXVI differ from those stated in the Indian Calendary These differences are due to the former calculations having been based on Professor Jacobi's earliest Tables published 30 years ago, while the present ones agree with the results of calculation made by his more recent elementary fixtures. Each difference is specially noted at foot of Table LXXVI.

The nalshatra.

308 In the mean system the position at any moment of the mean moon in the ecliptic circle, i.e. the mean moon's nakshatra, is found by adding her mean distance from the mean sun to the latter's longitude, that is to say, by adding to the value of s (the mean sun's longitude) the value of a at the same moment as found by calculation for the mean tithi. All work by the Tables being in the first instance for the mean positions of sun and moon at mean sunrise of any day, Table LXXX provides the sun's mean long., s, in 10,000ths of the circle, for each period of 24-hours measured from the moment of mean Měsha-sainkrānti, while Table LXXXI states the same increase for fractions of the day. To obtain the value of s for mean sunrise of any day it is necessary to note first its value after the interval of days between the day of Měsha-samkrānti and the given day (Table LXXX), and, since that value is measured from the moment of Měsha-samkrānti and not from mean sunrise, afterwards to deduct from the value se obtained the increase during that fraction of the day (Tahle LXXXI), The result is the required s, or the mean sun's long, at mean sunrise of the given day. Then s+a=n, the nakshatra index required, or the mean moon's place in the echptic circle at mean sunrise of that day:

The Rule for work, then, is as follows. Find the value of a (=t), the mean tithi-index at mean surnise of the given day (Example 2 below). Note the serial number of the day as measured from Jan 1. Deduct from this the serial number of the day of mean Mesha-samkranti (Table LXXVI, col 13, in brackets). This gives the number of intervening days. Turn to Table LXXX and note the value of s against that interval of days Deduct from this the mean sun's movement given in Table LXXXI during the hours and minutes stated in Table LXXVI, col. 17. The result is the required value of s at mean sunrise of the given day. Add s to a. This = n, the required nakshatra-index. Table LXVIII above, or Table VIII, Indian Calendar, gives the name of the nakshatra.

The Tables.

309. Table LXXVI corresponds to Table I *Indian Calendar* in formation and is to be used in the same way. Here the value of a is the value of t. It gives the tithi-index direct without further calculation.¹

Table LXXVII shows the duration and collective duration of mean solar months, and the increase in the moon's phase, a, during each such month.

Table LXXVIII gives the value of a at the beginning of each Kahyuga contury.

Table LXXIX corresponds, with a necessary shift of position, to Table LXXIV above; the use of which is fully explained in my former papers, §§ 279, 301.

¹ To find the value of a, or t, 10 the exact moon's phase, in 10,000ths of the carcle, at any moment of any day, note its value at mean sunrise of the first civil day of the lunreless year, as given in Table LXXVI (col 23), and add its value for intervening days, hours, etc. (Tables LXIV, LXV under heading a).

Tables LXXVIII and LXXIX, with Table LXXIII above (under heading a), which gives the value of a at the beginning of each year of the Kaliyuga century, enable us to find the value of a at mean summer of the civil day Chaitra sukla 1 at the beginning of each luni-solar year Tables LXXVIII and LXXIII yield the value of a at mean summer of the day on which mean Mesha-samkranti occurred, and Table LXXIX enables, by addition, the a for the interval of days between that day and the day Chaitra sulla 1 to be ascertained. [The same can be found by subtracting from the sum of the values obtained from Tables LXXVIII and LXXIII (col a) the value for those intervening days given in Table LXIV above (see Lyample 1).]

The use of Tables LXXX and LXXXI is explained above (§ 308) They correspond, mutatis mutandia, with Tables XLVIII A, XLIX above used in calculation for the sun's true longitude

310 The century-Table LXXVIII requires some further explanation. Its object is to determine the mean moon's phase, a, at mean sunrise of the opening civil day of each Kaliyuga century, ie the day on which mean Mēsha-samkrānti occurred at some time later on that day. Reference to Table LXXVI shows that this opening day occurred at the beginnings of centuries 36 and 37 KY on a Sunday, and in centuries 38 to 45 on a Saturday. From Table I, Indian Calendar, by adding the sodhya interval (above, § 306, 1111) to the date and time there given for the moment of true Mēsha samkrānti, we find that in centuries 46 to 48 it fell on a Friday. In the mean system, therefore, centuries 37 and 45 were defective centuries, while the rest were common

Table LXXVIII corresponds to Table LXXII above, which concerns true solar years, and by the true system, i.e. calculation by the movements of true sun, the only defective century was century 42. This accounts for the difference between the two Tables.

It has been shewn above (§ 299, 1) that the actual value of a at mean sunrise of Sunday, 21 March A.D 499, on which day, 6 hours later, occurred the moment of mean Mēsha-samkrānti (mean sun at 0°) at the beginning of Kaliyuga century 36, was, in notation in 10,000ths of the circle, 7715 352496330 The values of a for later century-beginnings are found by addition to this of the century increases of a, common and defective as required

EXAMPLES

Example 1 To find the European day, week-day, and phase of mean moon, ie the mean tithi-index a (which = t, the index) at mean survise of the first civil day of the luni-solar year, that is to say, of the day called "Chaitra sulla 1" of the year in question

[This example is given in order to enable any student to verify the entries in Table LXXVI, cols 19-23. For ordinary date work the entries themselves afford all information]

The mean new moon which marks the astronomical beginning of any mean lunar year is the new moon at the end of the lunar month Phälguna of the previous year. The moment of its occurrence is always earlier than the moment in the current year of mean Měsha-samkrānti, the beginning of the mean solar year. The civil day next following the moment of the initial mean new moon of the year is called "Chaitra sukla 1," that tithi being current at mean sunrise of that civil day. Our tabular calculations being for mean sunrise, the value of a in Table LXXVI, col 23, must always be between 0 and 333 3, the last being the limit of the tithi

To find its value for any year we must first calculate the value of a at mean summe on the day of occurrence of mean Mesha-samkranti from Tables LXXVIII and LXXIII (above) under heading a

This done there are two processes by which the mean sunrise value of a on the day Chaitra sukla 1 can be obtained. One is to use Table LXIV, which, by deducting from the a of mean Mesha-samkranti-day mean sunrise (already found) the next lower value of a in the Table as given for the first 30 days, yields at once the interval of days between Chaitra sukla 1 and

Mesha-samkranti, the value of a at mean sunrise of the former, and the required week-day. The second process is, using Table LXXIX, to find such earlier day as by adding its a to the a of Mesha-samkranti, already found, will yield a result between 0 and 3333. The Table then shews the interval of days between the two sunrises, and the week-day corresponding to Chaitra sukla 1.

A. Take for instance the year K.Y. 3725 expired, AD 624-25. Mean Mēsha-samkrānti occurred in that year (Table LXXVI, cols. 13-17) on Wed 21 Mai,—serial day 81, from Jan. 1. We take the value of a at mean sunrise at the beginning of the Kaliyuga century and at the beginning of the expired year from Tables LXXVIII and LXXIII respectively. The result gives the value of a at mean sunrise of Mēsha samkrānti day in the given year

	rı+d	\boldsymbol{a}
(Table LXXVIII). KY cent 37	(1)	6583 1816
(Table LXXIII above) K.Y year 25	(8)	2047 6413
. At mean sunrise on Wed 21 Mar, the day of occur- rence of mean Mesha-samkianti	(4)	8630 8229
Process 1		
(Table LXIV above). Next lower value of a in the first		
30 days of the Table, 1e that for 25 days	-(4)	-8465 7968
At mean sunrise of the day Chaitra sukla 1	(0)	165 0261
This Chaitra ankla I civil day was (81-25=) Day 56, or (7 LXIX above) Sat 25 Feb A D 624	Table IX	K, Indian Calendar, or
Process 2	u- d	a.
At mean sparse on Wed 21 Mar, the day of mean		
Mēsha-samkrānti (as aboie)	(4)	8630 8229

Table LXXIX shows that the interval of days was 25, and the result is in all respects the same as the former

B Calculation for the mean sunrise value of a on the day of mean Mösha-samkränti, the first step shewn in the above, by use of Tables LXXVIII and LXXIII sometimes results in the day found being not the actual day on which Mösha-samkränti took place but the day next to it This is inevitable, seeing that only one Table has to stand for the odd years of all centuries. In such case the necessary adjustment must be made for one day's difference. The entries in Table LXXVI, cols 13 to 17, are conclusive as to the actual day.

Take the year AD. 625-26, KY. 3726 expired. In that year mean Mēsha-samkrānti occurred on Thurs 21 Mar, serial day 80

At m. sunrise of Thurs 21 Mar, the d			(5)	2231.4569
At mean sunrise of Friday, 22 Mar. Deduct value for one day (Table LXIV)	• •	•	(6) (1)	2570 9888 338 6819
(Table LXXIII) KY year 26 .	•	•	(5)	5986.9072
(Table LXXVIII) KY century 37		•	(1)	6583 1816
			w-d	\boldsymbol{a}

For

the a of Chaitra sukla 1 and its day and week-day, we use	e either o	of the two process
Process 1	w- d	а
At m sunrise of m M. S -day, Thurs 21 Mar	(5)	2231 4569
(Table LXIV above) Next lower value of a in the first 30 days of the Table, viz for 6 days, interval.	- (6)	-2031 7912
At mean sunrise of Fr. 15 Mar, being the day Chaitra sukla 1	(6)	199 6657
Or, Process 2	w- d	a.
At m sunuse of m Mesha-samk day (as above)	(5)	2231 4569
Add (Table LXXIX for 6 days earlier)	+(1)	+7968 2086
Result (same as above)	(6)	199 6657

Example 2. To find the mean tithi-index a for any day in the year, or any moment of any day

Table LXXVI, cols 19-23, states the civil day, Chaitra sukla 1, for each year, its serial number from Jan 1, its week-day, and its tithi-index a at mean sunrise. Calculate, from Table III Indian Calendar or Table LXIII above, the interval of whole days to mean sunrise on the given day, and, if necessary, the fraction of day subsequent to that sunrise Add the increment of a for whole days from Table LXIV, and for fractions of the day from Table LXXV, to the a given in Table LXXVI

Whole numbers may always be used for whole days, the decimals being only resorted to for close cases and when the calculation includes a fraction of a day

E g Required the tithi-index at mean sunrise on Āshādha tukla 4 in the year corresponding to AD 625-26, and at 8^h 20^m 15^s after m sunrise on that day.

Table LXXVI Chart suk 1, mean sunrise . Tables LXIII A, LXIV Interval to Ash. suk. 4.			a. 199 6657
and increase of a	(91)	(0)	815 5005
At mean sunrise on Ash suk. 4 day	(165)	(6)	1015·1662

Day 165 was (Table IX, Indian Calendar, or Table LXIX above) 14 June AD 625 (6)=Friday a=1015 shews (Table VIII or LXVIII) that sukla 4 was current at mean sunrise of that day

						a.
•	•	•	•	•	•	1015.1662
•	•		•	•	8 _h	112-8773
					20 ^m	4 7032
					154	0.0588
rise	•	•	•	•	a=	1132 8055
	•	•	risa	nica.	risa	20m 15t

Example 3 To find a (the tithi-index, or phase of mean moon) at each of the solar samkrantis in the year (the moments of the mean sun's entrance into the several signs), and to determine whether an intercalation of a lunar month took place during the year

Table LXXVI, cols 18, 14, 17, shews the day and time of occurrence of mean Meshasamkranti (mean sun at long '0') in each year, and Example I shows how to find the value of a at mean sunrise of that day. To that value must be added from Table LXV the increment of a during the interval from mean sunrise to moment of samkranti. The advance of a during each mean solar month, i.e. from each mean samkranti to the next (Table LXXVII, col 4) is 307 3526. The work may be carried out by use of whole numbers, except when a case is very close. This occurs when a waning moon is very near 0.

Required the above details for the years noted in Examples 1, 2, viz AD 624-5 and 625-6 In A.D 624-25 mean Mēsha-samkrānti took place 14^h 2^m 30^s after mean sunrise In A.D 625-26 it took place 20^h 15^m 0^s after mean sunrise (Table LXXVI, cols 13-17)

A D 624-25	Value of a at m	sunr	se on	mean	Mē	slın-sa	III-	ā
kräntı-de	y, as already fou	nd (l	kamp	le 1)		•	•	8630 8229
(Table LXV).	Increase of a in	14h	•	•			•	197 5858
	Ditto	2m	•	•	•	•	•	0 4703
	Datto	30°	•	•	٠	•	•	0 1176
Exact value of	a at moment of n	acan I	Mēsba	-samk	rāntı		•	8828 9461
AD 625-26	Value of a at m.	suni	rse of	mea	u Mi	ësha-s	am-	
krānti-d	ay as found .	•	•	•	•		•	2231 4569
(Table LXV).	Increase of a in	20h		•	•			282 1932
	Ditto	15 ^m	•	•	•	•	•	3 5274
Exact value of	a at moment of r	nean :	Měsho	-samk	rāntı	•		2517 1775

For the several samkrantis in each year we work here loughly with whole numbers only, adding successively the increase of a in 1 solar month

	A	D 624-25					AD	625-26
At Mësha-samkr .	•	a=8829 807	•	•	•	•	•	2517 307
At Vrishabba-samkr.	٠	. 9136 307	•	•	•	•	•	2824 307
At Mithuna-samkı	•	• 9443 307	•	•	•	•	•	3131 307
At Karka-samkr	•	. 9750 307	•	•	•	•	•	3458 307
At Simha-samkr .	•	. 57 etc.		•	•	•	•	3745 erc

In A D 621-25 it is seen that the mean moon was waning at the Kaika-samkränti and waxing at the Simha-samkiānti, proving an intercalation of a lunar month, which month (see Table LXXVII, col 1) was Śrāvapa Actually a at Simha samkrānti was 58 36.

In A.D 625-26 the small value of a at the moment of Mesha-samkranti shews that there could have been no intercalation in that year (see above, § 306, x2)

Example 4 To find the mean moon's nakshatra, or her place in the ecliptic circle at any moment

(See § 308 above) We have to find the value of s, the sun's mean long, at the given moment and the value at the same moment of a, the index of the mean tithi. s+a=n, the index of the nakshatra I assume that, as usual, the values wanted are those at mean sunrise on the given day, for later moments they can easily be found, from Table LXV for a, and from Table LXXXI for s The example here given will shew the process of work.

Required the nakshatra at mean sunrise on the day referred to in Example 2, viz Āshādha fukla 4 in KY 3726, which was proved to be 14 June AD 625, and on which day at mean sunrise the value of a was found to be 1015 1662. The day, measured from Jan 1, was serial number 165. In that year mean Mēsha-samkrānti took place (Table LXXVI) on Day 80 at 20h 15m after mean sunrise. The interval of whole days between 20h 15m after mean sunrise on the given day is (165-80=) 85.

					8
(Table LXXX) Interval of 85 days Less (Table LXXXI) for $20^{\rm h}$. for $15^{\rm m}$.	•	22 8149 0 2852		•	. 2327 1179
	•	23-1001		•	23 1001
At mean sunrise on the day Ashadha		4,	•	•	.s=2304 0178
Add a, as found for that mean sunrise	.	•	•	•	. 1015-1662
At mean sunrise on that day (=14 Ju	ne)		•		•n=3319 1840

Table VIII Indian Calendar, or Table LXVIII above, shews that the moon was then in the nakshatra Āślēshā by the equal-space system and by Garga, but in Maghā by the Brāhma Sildhānta ¹

The value of n, 3319 1840, in 10,000ths of the cucle, can be converted into degrees, if required, by Table XLV B, above. It = $119^{\circ} 29' 26''$ That was the mean moon's place

Example 5 The lagna. (See Indian Chronography, § 193, p 74, and Example 63, p 127) Required to ascertain at what hour on the day Āshādha suk 4 K Y 3726, or 14 June A D. 625, the sign Tulā became lagna

At mean sunrise the sun's mean long s was (Example 4) 2304 0178, roughly (Table XLV above) 82° 57′ The first point of Tulä (Libra) (Indian Chronography, Table XXII) is 180°. $180^{\circ} - 82^{\circ} 57' = 97^{\circ} 3' 97^{\circ} \times 4 = 388^{\circ}$, or $6^{\circ} 28^{\circ} . 3' \times 4 = 12^{\circ}$ The first point of Tulä, therefore, was lagna at $6^{\circ} 28^{\circ} 12^{\circ}$ after mean sunrise on the day in question. It lasted for 2 hours, when Vpschika (Scorpio) became lagna

As to these systems soo Indian Calendar, § 38, p.21; Indian Chronography, § 112 etc.

TABLE LXXVI.

Mean System Table, First Arya Siddhanta.

TABLE

MEAN SYSTEM TABLE,

Numbers of columns conform

(Cols. 1 to 4)—The years herein stated are the current years corresponding (Cols. 6 and 7)—Samvatsara-names of mean solar years in italics shew where

				CONCU	IRRENT YE	AR.		
Kalı	Saka	Vikrama	olar year al.	Kollam	A.D.	Jovian sa	Mean Intercalated (adhka) lunar month	
		Chattfidi Vikrama	Měshādi solar m Bengal.	Konsu	A.D.	Southern system	Northern system	month
1	2	3	3a	4	5.	6	7	8a
3601	422	557			499 500	. 9 Yu	van	9 Mārgasira
3602	423	558			\$500-01	10 Db		
3 603	424	559			501-02	11 1 é7	78 r 8	
3604	425	560			502 03	12 Ba	hudbānya .	. 5 Srāvaņa
3605	428	561			503-04	13 Pr	amāthın .	
3606	427	562			*504-05	14 Vi	krama .	
3607	428	563			505-06	15 V _Į	raha	. 2 Varšākha
3608	1	564		-	506-07	16 Ch	utrabhānu .	
3609	1	565			507-08	17 Su	ibhānu	10 Pausha
3610	1	566			*508-09	18 Ta	iraņa	
3611	-	1			509-10	19 Pa	irthiva	
361	- 200	1		1	510 11	20 V	yaya	. 7 Āśvina
361: 361		1 500	1		511-12	21 Sa	arvajit	
361	_ 200	"			*512-13	22 S	arvadhārın .	
361	- 1		`		513-14	23 V	ırödhin	. 3 Jyēshtha
36		` ` ''	i		514-15		ikņta .	
36	- 1		l		515-16		Lhara	. 12 Phālguna
36	19 44	٠,	٦ ا		*516-17		landana .	
36	20 44	1 57	_		517-18		lijaya	
=					018-18	28 J	aya	8 Kārttika

LXXVI.

FIRST ĀRYA SIDDHĀNTA

to Table I, "Indian Calendar."

to the AD years in col 5, as in Table I, "Indian Calendar." differences exist from Surya Siddhanta nomenclature in true solar years.

1 Arya Siddhanta, mean system.

Kalı year.					HE	NT OF 1	CALLE	NCI	MAIE	CO					
	Mean bolar year Mean luni solar year (mean sunrish of civil day on which Chaitra Sukla 1 ends).														
	a (here=t, the index of the tithi)	Day and month, Week day the ind		Time of mout Mother samkränts			ız	Week da	٠,	Day and month, A D					
1	23			17 19		— <u>'</u>	14	-		13					
3601 3602 3603 3604 3605 3605 3607 3608 3609 3610 3611 3612 3613	205 4513 300 0909 175 7743 51 4577 86 0973 300 4125 176 0959 210 7356 86 4189 121 0586 9996 7419† 211 0572 245 6968	Cues Cues Cues Cues Ved Cun Cues Cues Cues Cues Cues Cues Cues Cues	0 Sat. 6 Fri 3 Tues 0 Sat 6 Fri 4 Wed 1 Sun 0 Sat. 4 Wed 3 Tues 0 Sat 5 Thur		(77) (65) (54) (73) (63) (51) (70) (59) (78) (66) (56)	27 Feb 17 Mar 6 Mar 23 Feb 14 Mar 3 Mar 20 Feb 11 Mar 28 Feb. 18 Mar 7 Mar 25 Feb 16 Mar	S 0 30 0 30 0 30 0 30 0 30 0	M 0 12 25 37 50 2 15 27 40 52 5 17 30	H. 6 12 18 0 6 13 19 1 7 13 20 2 8		1 Sun. 2 Mon 3 Tues 5 Thur 6 Fri 0 Sat. 1 Sun 3 Tues 4 Wed 5 Thur 6 Fri 1 Sun 2 Mon		•	(80) (70) (80) (80) (80) (70) (80) (80) (70) (80)	Mar Mar Mar Mar Mar Mar Mar Mar Mar
3614 3615 3616	121 3802 9997 0635† 31 7031	hur	1 Sun 5 Thur 4 Wed	•	(52)	4 Mar 21 Feb 12 Mar	30 0 30	42 55 7	14 20 3	•	3 Tues 4 Wed 6 Fri		•	(8·)) (79)	Mar Mar Mar
3617 3618 3619 3920	246 0185 280 6581 156 3414 32 0248	un hur	2 Mon 1 Sun 5 Thur 2 Mon		(80) (68)	2 Mar.20 Mar9 Mar26 Feb	0 30 0 30	20 32 45 57	9 15 21 3		0 Sat 1 Sun 2 Mon. 4 Wed.	•		(80) (80) (79)	Mar Mar Mar Mar

[†] As a mean rates Chaitra Sukia 1 was suppressed The civil day corresponding to it, se, the first day of the mean lum solar year, was as given in cols. 19, 20.

			RENT YEAR	OOMOOM				
Mean Intercalate (adhika) lun	MYATSARA	JOVIAN SAMVATSARA			olar year	Vıkrnma	Saka	Kalı
month	Northern system	Southern system	AD.	Kollam	Meshadi solar in Bengal	Chatträdı Vıkrama	Daka	2101.
8a	7	6	5	4	3α	3	2	1
	nmatha	29 Mar	519 20			577	442	3621
	rmukha	30 Day	*520 21			578	443	J622
5 Srāvana	nalamba		521 22			579	444	3023
o mayana		82 Vile	522 23			580	445	3624
•	1	33 Vık	523 24			581	446	3025
l Chartra	verm .		*524 25	{		582	447	362G
1 Chaitra		35 Pla	525 26	1 1		583	448	3627
10 Pausha	•	36 Sut	526 27	1		584	449	3628
10 Pauans		37 Sob	527-28			585	450	3629
4+	idhn , ,		*528 29	1		586	451	3630
. 74	vās asu		529 30	{ {	}	587	152	3031
7 Āģvino	abhava		530 31			588	453	3632
•	, ,		531 32	} }	}	589	454	3633
•	vanga		*532 33	}		590	455	3631
3 Jyēshiha		42 Kil	533 34			59I	456	J635
	- 13	43 Sau	534 35			592	157	J636
12 Phälguna	1	44 Sād	535 36			503	458	3637
••	odhakrit .		*536 37			594	459	3638
**	idhāvin .	40 Par 47 Pra	537 38			595	460	3639
8 Kārttika	mādin Inda		538 39			596	1	3519
••		48 Ans 49 Räi	539 40			597	1	3141
3.0		49 Kal 50 Ans	*540 41			598	1	3112
б Śrāvaņa			541-42		1	600	1	3613
	gala		542 43		1	600		2444
1 Chaitra	ayukta Ihārthin		543 44	1		601	165	2015

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1 Årya Siddhänta, mean system.

			T OF THE	emei	ENCE	MME	CO		
Kalı yea	SUNRISE OF KLA 1 ENDS)	YEAR (MEAN II CHAITRA SU	MEAN LUNI SOLAR CIVIL DAY ON WHICH				OLAR YEAR	Mran	
	a (here=t, the index of the tithi)	Week-day	Day and month,	Caha-	'ime in M nkrå:	mea	Week day	d month,	
1	23	20	19		17		14	13	
3621	66 6644	1 Sun	17 Mar (76)	S 0	M 10	H 10	5 Thur	(60)	21 Mar
3622	280 9797	6 Fra .	6 Mar (66)	30	22	16	6 Fri		20 Mar
3623	156 6631	3 Tues	23 Feb (54)	0	35	22	0 Sat .	•	20 Mar
3624	191 3027	2 Mon	14 Mar (73) .	30	47	4	2 Mon		21 Mar
3625	66 9860	6 Fri	3 Mar (62)	0	0	11	3 Tues	•	21 Mar.
3626	281 3013	4 Wed	21 Feb (52)	30	12	17	4 Wed		20 Mar
3027	315 9409	3 Tues	11 Mar (70)	0	25	23	5 Thur	(79)	20 Mar
3628	191 6243	0 Sat	28 Feb (59)	30	37	5	0 Sat		21 Mar
3629	226 2640	6 Fra	19 Mar (78)	0	50	11	1 Sun .	(80)	21 Mar
3630	101 9473	3 Tues	7 Mar (67)	30	2	18	2 Mon.	(80)	20 Mar
3631	316 2626	1 Sun	25 Feb (50) .	0	15	0	4 Wed	(80)	21 Mar
3632	12 2703	6 Fri .	1£ Mar (74)	30	27	6	5 Thur	(80)	21 Mar
3633	226 5856	4 Wed	5 Mar (64)	0	40	12	6 Fn .	(80) .	21 Mar.
3634	102 2690	1 Sun	22 Feb (53)	30	52	18	0 Sat	(80)	20 Mar
3635	136 9086	0 Sat	12 Mar (71) .	0	5	1	2 Mon .	(80)	21 Mar
3636	12-5920	4 Wed .	1 Mar (60)	30	17	7	3 Tues	(80)	21 Mar
3637	47-2316	3 Tues .	20 Mar (79)	0	30	13	4 Wed	(80)	21 Mar
3638	261 5409	1 Sun	9 Mar (69)	30	42	19	5 Thur	(80)	20 Mar
3639	137 2303	5 Thur.	26 Feb (57) .	0	55	1	0 Sat	(80)	21 Mar.
3640	171 8699	4 Wed .	17 Mar (76)	30	7	8	1 Sun .	(80)	21 Mar
3641	47 5533	1 Sun	6 Mar (65) .	0	20	14	2 Mon	(80)	21 Mar
3642	201 8686	6 Fn .		30	32	20	3 Tues		20 Mar
3643	206 5082	5 Thur		0	45	2	5 Thur.		21 Mar
3044	172 1916	2 Mon .		30	57	8	6 Fn	•	21 Mar
3045	47 8749	6 Fri	20 Feb (51)	0	10	15	U Bat.	(80) .	21 Mar

				CONCU	RRENT YE	CAR			
		ama	year			Jovian sa	mvatsara.		Mean Intercalated adhika) lunar
Kalı	Saka	Chaitrādi Vikrama	Mēshādı solar ın Bengal	Kollam	AD	Southern system	Northern system		month 8a
1	2	3	3a	4	5	6	7	-	80
3646 3647	467 468	605	1		*544 45 545 46	54 Re 55 De	audra •	•	10 Pausha
3648	469	1	4		546 47	56 D	undubhi		
3649	470	1	5		547-48	57 R	udhırödgärın	1	
3630	471	60	6		*548 49	58 R	aktiksha .	· {	6 Bhādrapada
3651	475	2 60	7		549 50	59 K	rödhana	.	
3652	47	3 60	8		550 51	60 K	Ishaya	•	
3653	47	4 60	9		551-52	1 P	rabhava	1	3 Jycshtha .
3654	47	5 6	10	{	*552-53	2 V	'ibhava		
3055	47	0 0	31		553 54	3 5	ukla		11 Magha .
3656	47	7 6	12	-	554 55	5 4 I	Pramoda .		• •
3657	4	18 6	13	1	555 56	5 1	Prajāpati	•	
3658	3 4	79 (314		*556-5		Angiras .	• • •	8 Kärttika
365	9 4	80 (315		557 5		Śrīmukha	• •	
366	1	}	816	}	558 5	-	Bhāva .	•	4 7
366	- 1	1	617		559 6	İ	Yuvan .	•	4 Āshādha
366 366			818		*560 6	•	Dhātri Tamana		•
36	. 1	484 485	620		561 6	1	Isvara Robudhānya	•	1 Chaitra
		486	621		562 (ł	Bahudhānya Pramāthin†		· Offerage
	166	487	622		*564	}	Vrisha	•	10 Pausha
36	307	488	623		565	į .	Chitrabhānu		
30	808	480	624		566	1	Subkānu .		
3	669	490	025		567	1	Tārana		6 Bhādrapad
3	870	491	626		*568		Pārthiva		

[†] By I Arya Siddhants mean system 14 Vikrama was expunged, and A D 564 65 corresponded to 15 Vrishs. By the same authority (rue system A D 564 65 corresponded to 14 Vikrama, and 15 Vrisha was expunged A.D 565 66 was 16 Churabhanu by both systems

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1 Ārya Siddhānta, mean system.

			CO	MME	NCE	EME!	NT OF THE			
Mea	n s	OLAR YEAR	:				Mean luni solar civil day on whic	YLAR (MEAN H CHAITRA SU	SUNRISE OF IKLA 1 ENDS)	Kalı ycar.
Day and month		Week-day	,	mea	me e n Më akra	sha-	Day and month, A.D	Week day a (here=t, the index of the tithi)		
13		14			17		19	20	23	1
20 Mar (80)	-	1 Sun.		H 21	M 22	S 30	10 Mar (70)	5 Thur	82 5145	3646
21 Mar (80) .		3 Tues		3	35	0	28 Feb (59)	3 Tues	296 8298	3647
21 Mar (80)		4 Wed	•	9	47	30	19 Mar (78)	2 Mon	331 4694	3648
21 Mar (80)		5 Thur		16	0	0	8 Mar (67)	6 Fri	207 1528	3649
20 Mar (80) -		6 Fri		22	12	30	25 Feb (56)	3 Tues	82 8361	3650
21 Mar (80)		1 Sun		4	25	0	15 Mar (74)	2 Mon	117 4757	3651
21 Mar (80)		2 Mon		10	37	30	5 Mar (64)	0 Sat	331 7910	3652
21 Mar (80)		3 Tues.		16	50	0	22 Feb (53)	4 Wed	207 4744	3653
20 Mar (80)		4 Wed		23	2	30	12 Mar (72)	3 Tues	242 1140	3654
21 Mar (80)		6 Fri		5	15	0	1 Mar (60)	0 Sat	117 7974	3655
21 Mar (80)		0 Sat		11	27	30	20 Mar (79) .	6 Frı	152 4370	3656
21 Mar (80)	•	1 Sun.		17	40	0	9 Mar (68)	3 Tues	28 1204	3657
20 Mar (80) .	•	2 Mon.		23	52	30	27 Feb (58) .	1 Sun	242 4357	3658
21 Mar (80) .	•	4 Wed.		6	5	0	17 Mar (76) .	0 Sat .	277-0753	3659
21 Mar (80)		5 Thur.		12	17	30	6 Mar (65)	4 Wed	152 7587	3680
21 Mar (80)		6 Frı		18	30	0	23 Feb (54) .	1 Sun	28 4421	3661
21 Mar (81)		1 Sun		0	42	30	13 Mar (73)	0 Sat .	63 0817	3662
21 Mar. (80)	•	2 Mon.		B	55	0	3 Mar (62) .	5 Thur .	277 3970	3663
21 Mar. (80)	•	3 Tues		13	7	30	20 Fob (51)	2 Mon	153 0803	3664
21 Mar (80)		4 Wed.		19	20	0	11 Mar (70) .	1 Sun	187 7200	3665
21 Mar (81) .	•	6 Fm.		1	32	30	28 Feb (59)	5 Thur	63 4034	3666
21 Mar (80)	•	0 Sat	•	7	45	0	18 Mar (77) .	4 Wed	98.0430	3667
21 Mar (80) .	•	L Sun.		13	57	30	8 Mar (67)	2 Mon	312 3582	3668
21 Mar (80)		2 Mon.	•	20	10	0	25 Feb (56)	6 Fri	188 9416	3669
21 Mar (81) .	•	4 Wed.	•	2	22	30	15 Mar. (75)	5 Thur	222 6813	3670

TABLE

				NT YEAR	URRE	CON				
Mean Intercalated (adhika) lunar		ivatsara.	Jovian Sab				r year	rama		
month		Norther system	Southern system	A D.	ım	Kolla	Mëshadı solar ın Bengal	Chaitzādi Vikrama	Saka	Kalı
8a		7	6	5		4	3a	3	2	<u> </u>
3 Jyêshtha •		rvajit	20 V ₃ 21 Sa	569-70 570 71				627	492 493	3671 3672
11 Māgha •		rvadhārin rōdhin . ikrita .		571-72 *572-73 573 74				629	494	3673 3674
8 Kārttika •			25 K	574-75 575 76			1	1	496 497 498	3675 3676 3677
4 Āshādha	•	njaya . aya . Ianmatha	28 J	*576 77 577-78			5	638	499 500	3678 3679
•		ianmatna Durmukha Hēmalamba	30 1	578 79 579 80 *580-81			7	2 63	501 501	3680 3681 3682
1 Chartra		Vilamba . Vikārin , .		581-82 582-83			9	63	50	368 368
9 Mārgašīra		Sārvarın . Plava .		583-84 *584 85			41 42			368 368
		Subhakrit Sõbhana	, 37	585 86 586 87			43	509 6	38 8	36 36
	•	Krödhin . Visvāvasu	39	587-88 *588 89			345 646	511	90	3(
2 Varšākha	•	Parābhava Plavanga	41	589 90 590-91			647 648	513	392	8
. 11 Māgha	•	? Kilaka • 3 Saumya • 4 Sādhāraņa	4:	591-92 *592-93 593 94			649 650 651	514 515 516	693 694 8695	

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1 Arya Siddhanta, mean system.

	C	OMMENCEME	ENT OF THE			1
Mear	SOLAR YEAR.		MEAN LUNI SOLAR CIVIL DAY ON WHIC			Kalı year
Day and month, A D	Week day.	Time of mean Misha sanikränti	Day and month,	Week day	a (here=t the index of the tithi)	
13	14	17	19	20	23	1
21 Mar (80)	5 Thur	H M S 8 35 0	4 Mar (63) .	2 Mon	98 3646	3671
21 Mar (80)	6 Fm	14 47 30	22 Feb (53)	0 Sat	312 6799	3672
21 Mar (80)	0 Sat	21 0 0	12 Mar (71) .	5 Thur .	8 6876	3673
21 Mar (81) .	2 Mon	3 12 30	1 Mar (61)	3 Tues	223 0029	3074
21 Mar (80)	3 Tues	9 25 0	20 Mar (79)	2 Mon	257 6425	3675
21 Mar. (80)	4 Wed	15 37 30	9 Mar (68)	6 Fr: .	133 3259	3676
21 Mar (80)	5 Thur	21 50 0	26 Feb (57) .	3 Tues .	9 0092	3677
21 Mar (81)	0 Sat	4 2 30	16 Mar (76)	2 Mon	43 6488	3678
21 Mar (80).	1 Sun	10 15 0	6 Mar (65)	0 Sat .	257 9641	3679
21 Mar (80) .	2 Mon	16 27 30	23 Feb (54)	4 Wed .	133 6476	3680
21 Mar. (80)	3 Tues	22 40 0	14 Mar (73) .	3 Tues	168 2871	3681
21 Mar. (81) .	5 Thur .	4 52 30	2 Mar (62) .	0 Sat	43 9705	3682
21 Mar. (80)	6 Frı	11 5 0	20 Feb (51) .	5 Thur	258 2857	3683
21 Mar (80) .	0 Sat .	17 17 30	11 Mar (70) .	4 Wed .	292 9254	3684
21 Mar (80)	1 Sun .	23 30 0	28 Feb (59)	1 Sun	168 6087	3685
21 Mar (81)	3 Tues	5 42 30	18 Mar (78) .	0 Sat	203 2484	3686
21 Mar (80) .	4 Wed	11 55 0	7 Mar (66)	4 Wed .	78 9317	3087
21 Mar (80) .	5 Thur	18 7 30	25 Feb (56) .	2 Mon	293 2470	3688
22 Mar (81)	0 Sat	0 20 0	16 Mar (75) .	1 Sun	327 8867	3689
21 Mar (81).	1 Sun .	6 32 30	4 Mar (64)	5 Thur	203 5700	3690
21 Mar (80)	2 Mon	12 45 0	21 Feb (52)	2 Mon .	79 2534	3691
21 Mar (80) .	3 Tues .	18 57 30	12 Mar (71)	l Sun .	113 8930	3692
22 Mar (81).	5 Thur .	1 10 0		3 Fri	328 2083	3693
21 Mar (81).	6 Fr	7 22 30		Wed	24 2160	3694
21 Mar (80) .	0 Sat .	13 35 0	9 Mar (68) . 2	Mon	238 5313	3695

				CONCUL	RENT YEA	AR.		
Kalı,	Saka	Chatrādı Vikrams	Mēshādi solar year ın Bengal	Kollam	4 D.	JOVIAN SA	Northern system	Mean Intercalated (adhika) lunar month.
f	2	3	3a	4	5	6	7	8a
3696 3697 3698 3699 3700 2701 3702 3703 3704 3705 3706 3707 3708 3709 3710 3711 3712 3713 3714 3715	517 518 519 520 521 522 523 524 525 526 527 528 529 530 631 532 534 535 536 537	652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		594-95 595-96 *596-97 597-98 598-99 599-600 *600-01 601-02 602-03 603-04 *604-05 605-06 606-07 607-08 *608-09 609-10 610-11 611-12 *612-13 613-14 614-15	45 Vii 46 Pas 47 Pri 48 Ån 49 Rā 50 An 51 Pii 52 Kā 53 Sid 54 Ra 55 Du 56 Du 57 Ru 58 Ra 59 Kr 60 Ks 1 Pri 2 Vil 3 Stil 4 Pri	rödhakrit ridhāvin amādin anda . kshasa . ala . kshasa . ala . dhārthin . udra mdubhi . dhirödgārin . ktāksha . ödhana . haya . abhava	7 Āśvina 12 Phālguna 9 Mārgaśira 6 Bhādrapada 2 Vaišākha 11 Māgha 7 Āśvina
8717	538	673	22		615-18		gras	
3718 3719	540	674 678		1	*618-17		mukha .	4 Ashādhā
3720	841	678 676	1		617-18	8 Bh		
And the last of			"		618-19	9 Yu	WAN .	. 12 Phālguna

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1 Årya Siddhants, mean system.

			THE	MEN	NCE	MME	COI			_	
Kali yea		YEAR (MEAN TH CHAITRA SO					R,	DLAB YEA	3V 80	Ma	
1	a (here=t, the index of the tithi)	Week-day.	Day and month, A D.			Ti mea san	y.	Week-da		y and month AD	Day
	23	20	19	17				14	-	13	
		•		8.	M	H					
3696	114 2147	6 Fri	b (57)	30	47	19	•	1 Sun		Mar (80).	21 M
3697	148 8543	5 Thur	ır. (76)	0	0	2	•	3 Tues		Mar. (81) .	22 h
3698	24 5377 -	2 Mon	ır (65) .	30	12	8	•	4 Wed		Mar. (81) .	
3699	238 8530	0 Sat	b (54) .	0	25	14	٠	5 Thur		Mar (80).	21 A
3700	273 4926	6 Fri .	ır. (73) .	30	37	20	٠	6 Fra.		Mar. (80).	21 1
3701	149 1760	3 Tues	ır (62) .	0	50	2	•	1 Sun.	•	Mar (81).	22 N
3702	183 8156	2 Mon	ır (81)	30	2	9	٠	2 Mon.	•	Mar (81).	21 B
3703	59 4990	6 Fn	r (69) .	0	15	15	•	3 Tues		Mar. (80) .	21 B
3704	273 8142	4 Wed	b. (59)	30	27	21		4 Wed.	•	Mar. (80) .	21 B
3705	308 4 539	3 Tues	r. (78)	0	40	3	•	6 Fn.		Mar. (81) .	22 A
3706	184 1373	0 Sat.	ır (67)	30	52	9	•	0 Sat.	•	Mar. (81).	21 1
3707	59 8207	4 Wed .	b (55)	0	5	16	•	1 Sun.	-	Mar. (80) .	21 1
3708	94 4603	3 Tues	ır. (74)	30	17	22	•	2 Mon.	•	Mar. (80) .	21 1
3709	308 7758	1 San	r (64) .	0	30	4	٠	4 Wed.	•	Mar. (81).	22 1
3710	184 4589	5 Thur	b. (53)	30	42	10	•	5 Thur		Mar (81).	21 1
3711	219 0985	4 Wed.	r. (71)	0	55	16	•	6 Fm	•	Mar. (80) .	21 3
3712	94-7819	1 Sun	r. (60)	30	7	23	•	0 Sat.	• [Mar (80).	21 1
3713	129-4215	0 Sat.	z. (79)	0	20	5	•	2 Mon.		Mar (81).	22 1
3714	5 1049	4 Wed.	r. (68)	30	32	11	•	3 Tues		Mar. (81) .	21 1
3715	219-4201	2 Mon.	b (57)	0	45	17	٠	4 Wed.		Mar (80).	21 1
3716	254-0507	1 Sun.	r (76)	30	57	23	•	5 Thur		Mar. (80) .	21]
3717	129 7432	5 Thur.	r (65)	0	10	6	•	0 Sat		Mar (81).	22]
3718	5-4266	2 Mon .	b (54)	30	22	12	•	1 Sun.		Mar. (81)	21
3719	40-0661	1 Sun	r (72)	0	35	18		2 Mon		Mar (80).	21
3720	254 3814	6 Fn	r. (62)	30	47	0		4 Wed	•	Mar. (81) .	22

E 2

			T YEAR	URREN	CONC				
Mean ntercalated adhika) lunar		Jovian sam				r your	ame	T	
month	Northern system	Southern system-	D	n A	Kolla	Mēshādı solar ın Bengal	Chatradi Vikrama	aka	Kalı (
8a	7	8	5		4	3a	3	2	1
 9 Mārgašīra .		10 Db 11 Is 12 Be	319 20 620-21 621-22			26 27 28	677 678 679	542 543' 544	3721 3722 3723
•	ramāthın	13 P	622-23			29	680	545	3724
	ikrama	14 V	623-24			30	681	546	3725
5 Srāvana .	risha .		624-25		ι	31	682	547	3726
•••	hitrabhānu • • •		625-26		2	3	683	548	3727
0.77. /71.1.	subhānu .	17 8	626 27		3	4 3	684	549	3728
2 Varšākhs	Tāraņa		627-28	1	4	5 3	68	550	2729
10 Pausha	Pārthīva		*628-29	- 1	35	6 3	68	551	3730
	Vyaya		629 30	{	36	37	2 68	552	3731
4**	Sarvajit . •		630 31	1	37	- }	_ {	553	8732
 7 Дэ́үуда	Sarvadhārın		631-32	1	38	-	1	55	373
	Virodhin		*632 33	1	39	90	_ {	1	373
<u>".</u>	Khara		633-34		40	391 392	1		373 373
3 Jyčshtha	Nandana		635 36	1	42	693	-	- 1	37
	Vijaya		*636 37		43	694	- 1	ì	37
12 Phâlguna	Jaya	28	637-38		44	695	ì	1	37
	Manmatha	29	638-39		45	696	561	10 1	3
	Durmukha	30	639 40		48	697	562	41	3
9 Märgašura	l Hēmalamba	3	*640-41		47	699	563	42	3
-	2 Vilamba	3:	641-42		48	599	584	743	
	3 Vikānn	1	642-43		49	700	585	744	
5 Srāvaņa	4 Sārvarın	. 3	643-44	}	50	701	588	745	

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I Ārya Siddhānta, mean system.

			T OF THE	Men c emen	COP	
Kalı year		MEAN LUNI-SOLAR YEAR (MEAN SUNRISE OF CIVIL DAY ON WHICH CHAITRA SURLA 1 ENDS)			SOLAB YEAR.	Mean :
	a (here=t, the index of the tithi)	Week-day	Day and month,	Time of mean Mésha- samkränti	Week-day.	Day and month, A D
1	23	20	19	17	14	13
3721	289 0209	5 Thur.	22 Mar (81) .	H M. S	5 Thur.	22 Mar. (81)
3722	164 70 44	2 Mon	10 Mar. (70)	13 12 30	6 Fn	21 Mar (81)
3723	40 3877	6 Fm.	27 Feb (58)	19 25 0	0 Sat .	21 Mar (80)
3724	75 0274	5 Thur .	18 Mar (77)	1 37 30	2 Mon.	22 Mar (81)
3725	289 3427	3 Tues	8 Mar (67) .	7 50 0	3 Tues .	22 Mar (81)
3726	165 0261	0 Sat.	25 Feb (56) .	14 2 30	4 Wed.	21 Mar. (81)
3727	199 6657	6 Fm	15 Mar (74) .	20 15 0	5 Thur	21 Mar. (80)
3728	75 3491	3 Tues.	4 Mar (63) .	2 27 30	0 Sat .	22 Mar (81) .
3729	289 6643	1 Sun .	22 Feb (53) .	8 40 0	1 Sun .	22 Mar (81)
3730	324 3039	O Sat .	12 Mar (72) .	14 52 30	2 Mon	21 Mar (81)
3731	199 9873	4 Wed.	1 Mar (60) .	21 5 0	3 Tues .	21 Mar. (80)
3732	234 6269 `	3 Tues .	20 Mar (79) .	3 17 30	5 Thur	22 Mar. (81)
3733	110 3103	0 Sat	9 Mar (68) .	9 30 0	6 Fra .	22 Mar (81).
3734	324 6256	5 Thur .	27 Feb (58) .	15 42 30	0 Sat .	21 Mar (81)
3735	20 6333	3 Tues .	16 Mar (75) .	21 55 0	1 Sun .	21 Mar (80)
3736	234 9486	1 Sun .	6 Mar (65) .	4 7 30	3 Tues	22 Mar (81)
3737	110 6320	5 Thur.	23 Feb (54) .	10 20 0	4 Wed .	22 Mar (81)
3738	145 2716	4 Wed	13 Mar. (73) .	16 32 30	5 Thur	21 Mar (81)
3739	20 9550	1 Sun .	2 Mar (61) .	22 45 0	6 Fn	21 Mar (80)
3740	55 5946	0 Sat .	21 Mar (80) .	4 57 30	1 Syn	22 Mar (81)
3741	269 9099	5 Thur	11 Mar (70) .	11 10 0	2 Mon	22 Mar (81)
3742	145 5933	2 Mon .	28 Feb (59) .	17 22 30	. 3 Tues	21 Mar. (81)
3743	180 2329	1 Sun .	18 Mar. (77) .	23 35 0	4 Wed	21 Mar. (80) .
8744	55-9163	5 Thur .	7 Mar. (66) .	5 47 30	. 6 Fr	22 Mar. (81) .
3745	270 2316	3 Tues .	25 Feb (56) .	12 0 0	. 0 Sat	22 Mar. (81) .

Mean Intercalated (adhika) luni month	WATSARA,	Jovian sai			olar year	Vikrama	6.	
month	Northern system.	Southern system	A.D	Kollam	Mēshādı solar ın Bengal	Chattradı	Saka	Kalı
8a	7.	8	5	4	3a	3	2	1
	YB A	35 Pla	*644 45		51	702	567	3746
	hakut	•	645-46]]	52	703	568	3747
2 Vaišākha	ohana		646 47		53	704	569	3748
	ödhın		647-48		54	705	570	3749
10 Pausha	vāvasu	39 Vı <u>ź</u>	*648 49		55	706	571	3750
•••	rābhava† .		649-50		56	707	572	3751
***		42 Ke	650 51		57	708	573	3752
7 Āśvina		43 Sa	651 52		58	709	574	3753
	lhārana . ,		*652 53		59	710	575	3754
	ödhakrıt	45 V:	653 54		60	711	576	3755
3 Jyčahtha	ndhāvin		654 55		61	712	577	3756
44	ımādın	47 Pre	655 56		62	713	578	3757
12 Phālguna		48 Ān	*656 57		63	714	579	3758
	kahasa	49 Rā	657-58		64	715	580	3759
		50 Am	658 59		65	716	581	3760
8 Kārttika	igala	51 Pir	659 60		66	717	582	3761
•••	layukta	52 Kā	*660 61			718	583	3762
	dhārthip . ,	53 Sid	661-62	1		719	584	3763 3764
5 Srāvaņa	udra	54 Ra	662-63	1		720	-50	3765
***	rmatı	55 Du	663 64	1		721	1	3766
•••	nduhhi	56 Dq	*664, 65			722	1	3767
1 Chartra	dhırödgärın	57 Ru	665 66		1	723	1	3768
• •	ķtāksha . ,		666 67		'"	1	1	3769
10 Pausha	odhana . ,	59 Kr	667-68 *668-69	i	1		1	3770

[†] By the mean system 41 Playanga was expunged, as also by the true system.

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1 Ārya Siddhānta, mean system.

				THE	NT C	eme:	NCE	MME	CO					
Kalı yes	SUNRISE OF LALA I ENDS)) FAR (MFAN H CHAITRA ST							LR	OLAB YEA	LN S	Me		
Man ye	a (here=i, the index of the tithi)	Week day	Day and month, A D			ēsha-	ime in M nkrā	mea	Week day			mont!	and A	
I	23	20		19			17	-		14		;	13	
3746	304 8711	2 Mon		- (PE)	,,	8	M	11		1 C		•••	•	36
	180 5545	6 Fri		ır (75)	l	30	12	18	•	1 Sun			-	Mar
3747		•	-	ır (63)		0	25	0		3 Tues		_		Mar
3748 3749	56 2378 90 8775	3 Tues 2 Mon		b (52) ir. (71)		30 0	37 50	12		4 Wed		-	•	Mar
3750	305 1927	2 Mon . 0 Sat		• •		_		-		5 Thur.		_	-	2 Mar
3751	1 2005	5 Thur	•	r (61)		30	2	19	•	6 Fr		-	-	Mar
3752		3 Tues		r. (78)		0	15	1	•	1 Sun		_	-	Mar.
3753	215 5157 91 1991	0 Sat	•	r (68)	ì	30	27	7	•	2 Mop			-	Mar
3754	125 8387	6 Fri		b (57) r (76)		0 30	40 52	13		3 Tues			-	Mar
3755	1 5221	3 Tues	.	r (64)		au 0	5	2		4 Wed. 6 Fri		-	_	l Mar 2 Mar
3756	215 8374	1 Sun	.	b (54)		30	17	8		0 En			•	e Mar 2 Mar
3757	250 4770	0 Sat		r (73)		0	30	14	•	1 Sun		-		2 Mar
3758	126 1604	4 Wed		r (62)		30	42	20	•	2 Mon		•	•	l Mar
3759	160 8000	3 Tues.		r (80)		0	55	2	•	4 Wed		-	-	2 Mar
3760	36 4834	0 Sat.		r (69)		30	7	9		5 Thur				2 Mar
3761	250 7987	5 Thur	1	5 (59)		0	20	15		6 Fra		-	•	2 Mar
3762	285 4383	4 Wed .		r (78)		30	32	21		0 Sat		-	_	l Mar
3763	161 1217	1 Sun		r (66)	7	0	45	3		2 Mon.		-	•	2 Mar
3764	36 8051	5 Thur.		o (55)	24	30	57	9		3 Tues		•		2 Mar
3765	71 4447	4 Wed.	ł	r (74)	15	0	10	16	•	4 Wed		1)	r. (2 Mar
3766	285 7599	2 Mon		r (64)	4	30	22	22		5 Thur		31) .	r (l Mai
3767	161 44 33	6 Fr		b (52)	21	0	35	4	•	0 Sat		31) .	r (2 Mar
3768	196 0830	5 Thur	•	r (71)	12	30	47	10		1 Sun		31) .	r (2 Mar
3769	71 7663	2 Mon .		r (60)	1	0	0	17	•	2 Mon		B1).	r (22 Ma
3770	106 4060	1 Sun		r (78)	18	30	12	23		3 Tues		31)	r (21 Mar

TABLE

			AR	URRENT YE	CONC				
Mean Intercalated (adhika) lunai month		Northern system	JOVIAN SAI	A.D	Kollam	Meshidi solar year ın Bengal	Chaitrādi Vikrama	Saka	Kalı
		7	6	5	4	311	3	2	1
) I			
		bhava .		669-70		76	727	592	3771
6 Bhādrapada	•	•	2 V1	670 71		77	728	593	3772
		da .	3 Sul	671 72	1	78	729	594	8773
-		ımōda .	4 Pra	*672-73	1	79	730	595	3774
3 Jyēshtha	•	ijāpīti .	5 Pra	673-74	ļ	80	731	596	3775
•		giras	6 An	674 75		81	732	597	3776
ll Māgha		mukh	7 Srī	675 76	1	82	733	598	3777
		āva .	8 Bh	*676-77		83	734	599	3778
		van	9 Yu	677-78		84	735	600	3779
8 Kārttıka		ātrı	10 Dh	678 79		85	736	601	3780
	ļ	ara	11 I śv	679-80		86	737	602	3781
		udhānya	12 Ba	*680 81		87	738	603	3782
5 Srāvana		mäthin		681-82		88	739	604	3753
o biavana	ı	rama .		682 83		83	740	605	3784
			15 V _r 1	683-84		90	741	606	3785
1 (1)		trabhānu	_	*684 85		91	742	607	3755
1 Chaitra		ohānu		685 86		92	743	603	3757
10.7	.	ana		686 87		93	744	603	3788
10 Pausha	·	thiva .		687-88		94	745	610	2753
1	•	aya .		*688 89		95	746	611	3790
	•	-	_	689 90		96	747	612	3791
6 Bhādrapada	·	valit		690 91		97	745	1	21,13
	•	vadhāmn .		691 92		95	740	1	2702
•	•	ōdhn .		*692 93		99	750	1 -1.5	3.25
3 Jyështha		inta	24 Vil 25 Kb	693 94	1	100	751	615	3795

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1 Ārya Siddhānta, mean system.

						Į Ar)	a Siddhānta, r	nean system
	CO	MME	NCE	ME	T OF THE			
Mean	SOLAR YEAR				Mean luni solar civil day on whic	Kalı year.		
Day and month, A D	Week day	mea	me d n Mê	Sha	Day and month,	Week day	a (here=t, the index of the tithi)	
13	14		17		19	20	23	1
22 Mar (81)	5 Thur	H 5	M 25	S 0	9 Mar (68)	6 Fri	320 7213	3771
22 Mar (81)	6 Fri	11	37	30	26 Feb (57)	3 Tues	196 4046	3772
22 Mar (81)	0 Sat	17	50	0	17 Mar (76) .	2 Mon	231 0442	3773
22 Mar (82)	2 Mon	0	2	30	5 Mar (65)	6 Fri	106 7276	3774
22 Mar (81)	3 Tues	6	15	0	23 Feb (54)	4 Wed	321 0429	3775
22 Mar (81).	4 Wed	12	27	30	13 Mar (72)	2 Mon	17 0508	3776
22 Mar (81) .	5 Thur	18	40	0	3 Mar (62)	0 Sat	231 3658	3777
22 Mar (82)	0 Sat	0	52	30	21 Mar (81)	6 Frı	266 0054	3778
22 Mar (81) .	1 Sun	7	5	0	10 Mar (69)	3 Tues	141 6888	3779
22 Mar (81) .	2 Mon	13	17	30	27 Feb (58)	0 Sat	17 3723	3780
22 Mar (81)	3 Tues	19	30	0	18 Mar (77)	6 Frı	52 0118	3781
22 Mar (82)	5 Thur	1	42	30	7 Mar (67)	4 Wed	266 3271	3782
22 Mar (81)	6 Fr1	7	55	0	24 Feb (55)	1 Sun	142 0105	3783
22 Mar (81) .	0 Sat	14	7	30	15 Mar (74)	0 Sat	176 6501	3784
22 Mar (81)	1 Sun	20	20	0	4 Mar (63)	4 Wed	52 333 4	3785
22 Mar (82)	3 Tues	2	32	30	22 Feb (53)	2 Mon	266 6487	3786
22 Mar (81)	4 Wed	8	45	0	12 Mar (71)	1 Sun	301 2884	3787
22 Mar (81) .	5 Thur	14	57	30	1 Mar (60)	5 Thu	176 9717	3788
22 Mar (81) .	6 Fri	21	10	0	20 Mar (76)	4 Wed	211 6114	3789
22 Mar. (82)	1 Sun	3	22	30	8 Mar (68) .	1 Sun	87 2948	3790
22 Mar (81)	2 Mon	9	35	0	26 Feb (57)	6 F11	301 6100	3791
22 Mar (81) .	3 Tues	15	47	30	16 Mai (75)	4 Wcd	9997 6177†	3792
22 Mar (81)	4 Wed .	22	0	0	6 Mar (65)	2 Mon	211 9330	3703
22 Mar (82)	6 Fri	4	12	30	23 Feb (54)	6 l'ii	87 0104	3794
22 Mar (81)	0 Sat	10	25	0	13 Mar (72)	5 Thur .	122 2560	3795

[†] As a mean tithi Chaitra Sukla I was expunsed. The civil day corresponding to it, i.e., the first day of the mean luni solar year, was as given in cols 19, 20

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	± 3	· ·	\$ \$	7			
3790	r1	1	1	T 4 p & 5	9 A 4 7;		
3797	rent T	19 1		*	* 1 1		
37V- ,	ein -	4 1			67 47 16		
37.72	171	. 1	£ ș	1	3 , 5 , 5 , 5		4 7 4
วุลก	r21 7	; , ^ ;		*	6 2 ⁷⁶ 8		
gen]	122 / 7		. 1	\$ p 1 * 4	A TEEL VE		
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arva	P26	7:5 }	} c = 3	* t	**		
2504	C:	7/11 7	1 1 1 1	* *	*# 17 1 +		
3503	e20 .	77 }	130	• • •	1 6 1-4		٠.,
3400	127	7/2	111	*7 11 *	> 5414.1		
3007	624	783	11:	4 1 50	жела _ф ър		11 1 2 4 7 7 7
2509	6.00	724	113	** 3 1 tr	. \$25.54		
3507	(20)	70.	114		, + ++1#11		
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3812	633	744	117	711 11	AZ P. sku		
3813	674	707	114	711 12	4. 12 > 41		2 80 1132 8
3814	03.5	770	110	4712 13	## * 12 \$P\$/ b	4	
391	5 C30	771	120	717.14	4" Yerr or allow		urige .
381	0 037	772	121	714 15	\$6 \$5an 4534 W	•	
381		773	122	715 16	47 Francis in	•	
881	1	774	123	+710 17	de Aranea .		. A Kimilar
381		778	124	717 18	40 1,77 ****		
383	1	776	125	715 10	ten Araba .		

[†] By the "Indian Calendar" 7 Airina was intercalated but the case was a close one

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1 Ārya Siddhānta, mean system.

iean system	s Siddhänta, m	1 Ary							
			F THE	ÆN:	encei	OMO	C		
Kalı year.	SUNRISE OF KLA 1 ENDS)	YEAR (MEAN I CHAITRA SUI	EAN LUNI-SOLAR	1			lar Year	EAN 80	· Mea
	a (here=t, the index of the tithi)	Week-day.	y and month, AD	sha-	Fime o ean Mc imkrār	7	Week-day	ith,	Day and month
1	23	20	19		17	- -	14		13
3796	9997 9394†	2 Mon	Mar. (61)	8 30	M 3 37		1 Sun		22 Mar (81)
3797	32 5790	1 Sun	Mar (80)	0	2 50	-	2 Mon	1	22 Mar (81) .
3798	246 8943	6 Fri .	Mar (70) .	30	5 2	1	4 Wed.	l	22 Mar (82)
3799	122 5777	3 Tues	Feb (58)	0	15		5 Thur	}	22 Mar (81)
3800	157 2173	2 Mon	Mar (77) .	30	7 27		6 Fri		22 Mar (81)
3801	32 9006	6 Fm .	Mar (66)	0	3 40		0 Sat		22 Mar (81)
3802	247 2159	4 Wed .	Feb (56)	30	5 52		2 Mon		22 Mar (82)
3803	281 8555	3 Tues	Mar. (74) .	0	2 5		3 Tues	1	22 Mar (81)
3804	157 5389	O Sat .	Mar (63)	30	B 37	.	4 Wed.		22 Mar (81)
3805	33 2223	4 Wed	Feb (52)	0	0 30	-	6 Fr		23 Mar (82)
3806	67 8619	3 Tues	Mar (71)	30	6 42		0 Sat		22 Mar (82)
3807	282 1771	1 Sun.	Mar. (60)	0	2 55	- [1 Sun		22 Mar (81)
3808	316 8168	0 Sat	Mar (79)	30	9 7		2 Mon		22 Mar (81)
3809	192 5002	4 Wed	Mar. (68) .	0	1 20		4 Wed		23 Mar. (82)
3810	68 1835	1 Sun.	Feb (57) .	30	7 32		5 Thur	•	22 Mar (82)
3811	102 8231	0 Sat .	Mar (75)	0	3 45	- 1	6 Fr1		22 Mar (81)
3812	317 1384	5 Thur .	Mar (65)] .	30	9 57		0 Sat.		22 Mar (81)
3813	192 8218	2 Mon	Feb (54) .	0	2 10		2 Mon	•	23 Mar. (82) .
3814	227 4614	1 Sun .	Mar (73) .	30	8 22		3 Tues		22 Mar (82)
3815	103 1447	5 Thur .	Mar (61) .	0	4 35	•	4 Wed.		22 Mar (81)
3816	137 7843	4 Wed	Mar. (80) .	30	20 47		5 Thur		22 Mar (81)
3817	13 4678	1 Sun .	Mar (69)	0	3 0	•	0 Sat	•	23 Mar (82) .
3818	227 7831	6 Fr1.	3 Feb (59)	30	9 12	٠	1 Sun.	•	22 Mar (82)
3819	262 4226	5 Thur.	Mar (77) .	0	5 25	•	2 Mon		22 Mar (81) .
3820	138 1060	2 Mon .	7 Mar (66) .	30	21 37	•	3 Tues		22 Mar (81)

As a mean tithi Chaitra Sukla I was suppressed. The civil day corresponding to it, s.e, the first day of the mean luni-solar year, was as given in cols. 19, 20

	1			CONCUI	RRENT YEA	R		
	6.	Vıkrama	olar year			Jovian sai	Matsara	Mean Intercalated (adhika) luna
Kalı	Saka	Chatradı Vıkrama	Meshadı solar ın Bengal	Kollam	AD	Southern system	Northern system	month
1	2	3	3a	4	5	8	8	8a
3821	642	777	126		719 20	51 Pin		
3822	643	778	127		*720 21			4 Āshādha
3823	644	779	128		721 22	•	layukta .	•
3824	645	780	129		721 22		dhārthin .	
3825	646	781	130		723 24	54 Ra	•	1 Chaitra
3826	647	782	131			55 Du		•
3827	648	783	132		*724 25		ndubhi .	9 Mārgasira
3828	649	784	133		725-26		dhırödgärın	
3829	650	785	134		726 27		ktūksha .	•
3830	651	786	135		727-28		odhana .	6 Bhādrapad
3831	652	787	136		*728 29	60 Kal	- A	
3832	653	788	137		729-30		bhava .	
3833	654	789	138		730 31	2 Vıb		2 Vaisākha
3834	655	790	139		731 32	3 Suk		
3835	656	791	140		*732 33	4 Pra	•	11 Māgha
3836	657	792	141		733 34		jāpatı	
3837	658	793	142		734 35 735 36	6 Ang		
3838	659	794	143		*736 37	8 Bhi		7 Aśvina
3839	660	795	144	Į.	737-38	9 Yu		
3840	"	796	145		738 39	10 Dha	-	
3841	""	797	146	1	739 40	11 <i>Tiv</i>	•	4 Āshādha
3842	1 000	798	147		*740 41		audhānya .	
3843	1 552	799	148		741-42		māthın	12 Phālguna
3844	. ""	1 000	149		742-43	14 Vık	-	••
3848	666	801	150		743 44	15 Vr.	sha trabhānn	9 Mārgašīra

[†] By the mean system, as well as by the true system, 7 Srimukha was expunged.

 $\mathbf{LX} \, \boldsymbol{\lambda} \, \mathbf{VI} \mathbf{\longleftarrow} \boldsymbol{Contd}$

1 Ārya Siddhānta, mean system.

	CO	IMENCI	EMEN	T OF THE			l
Mean s	SOLAR YEAR			Mean Luni-solar Civil day on which	Kalı year		
Day and month, AD	Week day	Time of mean Mêsha samkrānti		mean Mesha Day and month,		a (here=t, the index of the tithi)	
` 13	14	17		19	20	23	1
23 Mar (82)	5 Thur	H M	S 0	24 Teb (55)	6 Fri	13 7894	3821
22 Mar (82) .	6 Fra.	10 2	30	14 Mar (74)	5 Thur	48 4290	3822
22 Mar (81)	O Sat .	16 15	0	4 Mar (63)	3 Tues	262 7443	3823
22 Mar (81)	1 Sun	22 27	30	21 Feb (52)	O Sat .	138 4276	3824
23 Mar (82) .	3 Tues .	4 40	0	12 Mar (71) .	6 Frı .	173 0673	3825
22 Mar (82)	4 Wed.	10 52	30	29 Feb (60) .	3 Tues	48 7506	3826
22 Mar (81)	5 Thur.	17 5	0	19 Mar (78) .	2 Mon	83 3903	3827
22 Mar (81) .	6 Fri	23 17	30	9 Mar (68) .	0 Sat	297 7055	3828
23 Mar (82) .	1 Sun	5 30	0	2G Feb (57)	4 Wed .	173 3890	3829
22 Mar (82)	2 Mon .	11 42	30	16 Mar (76) .	3 Tues .	208 0286	3830
22 Mar (81) .	3 Tues	17 55	0	5 Mar (64)	0 Sat.	83 7119	3831
23 Mar (82) .	5 Thur	0 7	30	23 Feb (54)	5 Thur	298 0272	3832
23 Mar (82)	6 Fri	6 20	0	14 Mar (73) .	4 Wed	332 6669	3833
22 Mar (82)	0 Sat	12 32	30	2 Mar (62)	1 Sun	208 3502	3834
22 Mar (81) .	1 Sun .	18 45	0	21 Mar (80)	0 Sat .	242 9898	3835
23 Mar (82) .	3 Tues	0 57	30	10 Mar (69)	4 Wed .	118 6732	3836
23 Mar (82) .	4 Wed	7 10	0	28 Feb (59)	2 Mon	332 9885	3837
22 Mar (82)	5 Thur .	13 22	30	17 Mar (77)	0 Sat .	28 9962	3838
22 Mar (81) .	6 Fra .	19 36	0	7 Mar (66)	5 Thur .	243 3115	3839
23 Mar (82)	1 Sun	1 47	30	24 Feb (55) .	2 Mon	118 9949	3840
23 Mar (82) .	2 Mon .	8 0	0	15 Mar (74) .	1 Sun	153 6345	3841
22 Mar (82).	3 Tues .	14 12	30	3 Mar (63)	5 Thur	29 3179	3842
22 Mar (81) .	4 Wed	20 25	0	22 Mar (81)	4 Wed .	63 9575	3843
23 Mar (82)	6 Fra	2 37	30	12 Mar (71) .	2 Mon .	278 2728	3844
23 Mar (82)	0 Sat .	8 50	0	1 Mar (60)	6 Fra	153 9561	3845

TABLE

	CONCURRENT YEAR.									
Kalı	Saka	Chaitrādi Vikrama	Mcshādi solar year ın Bengal	Kollam	A D	JOVIAN SAN	Norther		Mean Intercalated (adiuka) lunar month	
1	2	3	3a	4	5	. 6	7		8a	
3846 3947	667	802 803	151 152		*744 45 745 40	,17 Su 18 Tā				
3848	669	804	153		746 47	19 Pā	rthiva		5 Srāvaņa .	
3849	670	805	154		747 48	20 V3	nyn			
3810	671	806	155		*748 49	49 21 Sarvapit				
3851	672	807	156		749 50	22 Sarradhārm			2 Vaišākha .	
3852	673	808	157		750 51	23 Virödlun .				
3853	674	809	158		751-52	24 Vikrita			10 Pausha .	
3854	675	810	159		*752 53	25 K	hara .		•••	
3855	676	811	160		753 54	26 No	andana		1.5	
3856	677		161		754 55	27 Vi	jaya	•	7 Asvina .	
3857	678	330	162		755 56	28 Ja	ıya	18	••	
3858	679	1		}	*756 57	29 M	anmatha			
3859	1	}			757 58	30 D	urmukha		4 Āshādha .	
3860 3861		1	}	l l	758 59	31 H	ēmalamba			
3869	1	- }	1	}	759 60	}	ilamba	•	12 Phälguna .	
386		- {	1	- 1	*760 61		ikārin .	•	•••	
386	1			1	761 62		ñrvann -	•	•	
386	- {	36 82	1	1	762 63		lava .	•	9 Mārgaiera .	
386	6 6	- 1	22 17	1	763 64 *764 68		ubhakrit	• •		
380	57 G	- }	23 17	}	765 6		öbhana . Crödhin .	•	···	
38	38 G	89 8	24 17	1	766 6		Xroamn . Viévāvasu	• •	5 Stāvaņa .	
38	1	8 00	25 1	74	767-6	-	Parābhava	•		
38	70	591 8	28 1	75	*768 6		Plavanga .		2 Varšākha	

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1 Ārya Siddhānta, mean system.

	CO	imencemen	T OF THE			
Mean s	OLAR YEAR		Mean luni-solar civil day on whici	Kalı year.		
Day and month, A D	Week day.	Time of mean Mösha- samkränti	Day and month, A D	Week-day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
		H M S				
22 Mar (82)	1 Sun	15 2 30	19 Mar (79)	5 Thur	188 5957	3846
22 Mar (81) .	2 Mon .	21 15 0	8 Mar (67)	2 Mon	64 2790	3847
23 Mar (82)	4 Wed .	3 27 30	26 Feb (57)	0 Sat	278 5044	3848
23 Mar (82)	5 Thur	9 40 0	17 Mar (76)	6 Fri	313 2341	3849
22 Mar (82)	6 Fri	15 52 30	5 Mar (65)	3 Tues	188 9173	3850
22 Mar. (81)	O Sat .	22 5 0	22 Feb (53)	0 Sat	64 6007	3851
23 Mar (82) .	2 Mon.	4 17 30	13 Mar (72) .	6 Fri	99 2404	3852
23 Mar. (82) .	3 Tues	10 30 0	3 Mar (62)	4 Wed	313 5556	3853
22 Mar (82) .	4 Wed.	16 42 30	20 Mar. (80)	2 Mon	9 5633	3854
22 Mar (81)	5 Thur .	22 55 0	10 Mar (69)	0 Sat	223 8786	3855
23 Mar (82)	0 Sat .	5 7 30	27 Feb (58)	4 Wed	99 5620	3856
23 Mar (82)	1 Sun	11 20 0	18 Mar (77)	3 Tues	134 2016	3857
22 Mar (82)	2 Mon	17 32 30	6 Mar (66)	0 Sat	9 8850	3858
22 Mar (81) .	3 Tues	23 45 0	24 Feb (55)	5 Thur	224 2003	3859
23 Mar (82) .	5 Thur .	5 57 30	15 Mar (74)	4 Wed	258 8399	3860
23 Mar (82)	6 Fri.	12 10 0	4 Mar (63)	1 Sun	134 5233	3861
22 Mar (82) .	0 Sat	18 22 30	22 Mar (82)	0 Sat	169 1628	3862
23 Mar (82) .	2 Mon	0 35 0	11 Mar (70)	4 Wed	44 8463	3863
23 Mar (82)	3 Tues	6 47 30	1 Mar (60)	2 Mon	259 1616	3864
23 Mar (82)	4 Wed .	13 0 0	20 Mar (79)	1 Sun.	293 8012	3865
22 Mar (82)	5 Thur .	19 12 30	8 Mar (68)	5 Thur	169 4846	3866
23 Mar (82) .	0 Sat .	1 25 0	25 Feb (56) .	2 Mon.	45 1680	3867
23 Mar (82)	1 Sun.	7 57 30	16 Mar (75)	Sun	79 8076	3868
23 Mar /82)	2 Mon .	13 50 0	6 Mar (65)	6 Fri	294 1228	3869
22 Mar. (82)	3 Tues	20 2 30	23 Feb (54)	3 Tues	169 8062	3870

TABLE

				CONCU	RREAT YE	AR		
Kalı	Saka	Chastradı Vikrama	Mishādı solar year ın Bengal	Kollam	A D	JOVIAN SA Southern system	Northern system	Mean Intercal ded (adhika) lunar month
1	2	3	311	4	5	G	7	Fa
3871 3872 3873	692 693 694	827 828 829	176 177 178		769 70 770 71 771-72	12 Krl 43 Sau 44 Sid		10 Pausha .
3874 3876 3876	695 696 697	830 831 832	179 180 181		*772-73 773 74 774 75		ödhakrit . idhävin	7 Assina
3877 3878 3879	698 699 700	833 834 835	182 183 184		775 76 *776 77	18 Āno 49 Rāl	anda shasa	3 Jeështha
3880 3881 3682	701 702 703	836 837 838	185 186		777 78 778 79 779 80	50 Ani 51 Pib 52 Kül		12 Paälguna .
3883 3884 3885	704 705 706	830 840	187 188 189		*780 81 781-82 782 83	53 Side 54 Ray 55 Dui		8 Kürttika
3886 3887 3888	707 708 709	841 842 843	190 191 192		783 84 *784-85 785 86		ndublu Uurõdgärm stüksha	5 Srāvaņa .
3889 3890 3891	710	844 845 846	194		786 87 767 88 *788 89	59 Krõ 60 Ksl 1 Pra		1 Chaitra
3892 3893	712 713 714	847 848 849	196 197 198		789 90 790 91 791-92	2 V1b 3 Suk	bava .	10 Pausha
3894 3895	715	850 851	199 200		*792 93 793 94	5 Pra	gras .	7 Āśvina j

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1 Ārya Siddhānta, mean system.

	CO	MME	NCE	ME	ST OF THE			
Mean s	OLAB YEAR				Meay Luni-solar civil day on whic	v sunrise of kla l ends)	Kalı year.	
Day and month,	Week-day	Time of mean Mesha samkränti			Day and month, A:D.	Week-day	a (here=t, the index of the tithi)	
13	14	17			19	20	23	1
		H	M	s				
23 Mar (82)	5 Thur	2	15	0	13 Mar (72) .	2 Mon	204 4459	3871
23 Mar (82).	6 Fn .	8	27	30	2 Mar (61) .	6 Fra .	80 1292	3872
23 Mar (82)	0 Sat	14	40	0	21 Mar. (80)	5 Thur	114 7688	3873
22 Mar (82)	1 Sun	20	52	30	10 Mar (70)	3 Tues	329 0841	3874
23 Mar (82).	3 Tues	3	5	0	27 Feb (58)	0 Sat	204 7675	3875
23 Mar (82) .	4 Wed	9	17	30	18 Mar (77) .	6 Frı	239 4071	3876
23 Mar (82)	5 Thur.	15	30	0	7 Mar (86) .	3 Tues	115 0904	3877
22 Mar (82) .	6 Fn	21	42	30	25 Feb (56) -	1 Sun .	329 4057	3878
23 Mar (82) .	l Sun .	3	55	a	14 Mar (73)	6 Fn .	25 4134	3879
23 Mar (82)	2 Mon .	10	7	30	4 Mar (63)	4 Wed.	239 7288	3880
23 Mar. (82) .	3 Tues	16	20	٥	23 Mar (82)	3 Tues	274 3682	3881
22 Mar (82)	4 Wed	22	32	30	11 Mar (71)	0 Sat	150 0517	3882
23 Mar (82) .	6 Fn	4	45	0	28 Feb (59)	4 Wed	25 7351	3883
23 Mar (82)	0 Sat	10	57	30	19 Mar (78)	3 Tues	60 3747	3884
23 Mar (82)	1 Sun	17	10	0	9 Mar (68)	1 Sun	274 8900	3885
22 Mar (82)	2 Mon	23	22	30	26 Feb (57) · .	5 Thur	150 3734	3886
23 Maz. (82)	4 Wed	5	35	0	16 Mar (75)	4 Wed .	185 0130	3887
23 Mar (82) .	5 Thur	11	47	30	5 Mar (64)	I Sun	60 6963	3888
23 Mar. (82)	6 Fri	18	0	0	23 Feb (54) .	6 Fri	275 0116	3889
23 Mar (83)	1 Sun.	0	12	30	13 Mar (73)	5 Thur	309 6513	3890
23 Mar (82)	2 Mon	6	25	0	2 Mar (61) .	2 Mon	185 3346	3891
23 Mar (82) .	3 Tues	12	37	30	21 Mar (80)	1 Sun	219 9743	3892
23 Mar (82) .	4 Wed .	18	<i>5</i> 0	0	10 Mar (69)	5 Thur	95 6576	3893
23 Mar (83) .	6 Frı	1	2	30	28 F'3b (59)	3 Tues	309 9730	3894
23 Mar (82)	0 Sat .	7	15	0	17 Mar (76)	1 Sun	5 9807	3895

TABLE

					CONC	URR	ENT YEAR				
		900		year				JOVIAN SA	Anaetavma		Mean Interestited
Kalı	Saka	Chartradi Vikrama		Möshādı solar ın Bengal	Kolla	m	AD	Southern system	Northern system		(adlul a) lunar month
1	2	-	3	3a	4		б	6	7		8a
3896	71	7 8	352	201			794 95		rımukha Shāva		3 Jyështha
3897	71	8 8	353	202			795 96		inava Tuvan		0 0,000
3898	71	1	854	203			*796 97 797 98)hātr	1	12 Phālguna
3899	72	- 1	855	204			797 98		śrara	1	
3900	1	-	856 857	205		1	799 800	12]	Bahudhāny a	1	
3901 3902		23	858	207	1		*800 01	13 1	Pramätlun		8 Kārttika .
3903	1	24	859	208	1	1	801 02	14	Vikrama		
390		25	860	209	,	-	802 03	15	Vrisha .	.	
390	5	726	861	210	0		803 04	16	Chitrabhānu		5 Srāvana
390	6	727	862	21	1	1	*804 05	17	Subhānu		
390	72	728	863	3 21	2		805 06	18	Tāraņa	•	
89	08	729	864	4 21	3		806 07	19	Pärthiva .	•	1 Chartra
89	09	730	868	5 21	4		807 08	·	Vyaya .	•	
	10	731	86	1 -	15		*808 09		Sarvajit		10 Pausha .
	11	732	88	`\ -	16		809 10 810 11	[Sarvadhārın Virödhin	•	
	913	733 734	86 86	1	17		811-12	l .	Vikrita		6 Bhādrapada
	914	735	1	- 1	19		*812-13		Khara .		
	915	736	1	- 1	220		813-14		Nandana		
\$	3916	737	8	72	221		814-15	-	Vijaya .		3 Jyēshtha
3	3917	738	8	373	222		815-16	28	3 Jaya		•••
	3918 ′	739		874	223		*816-17	6-17 29 Manmatha			11 Māgha
	3919	74	-	875	224		817-18		0 Durmukha	•	
	3920	74	1	876	225		818-11	3	l H6malamba		

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1 Ārya Siddbānta, mean system.

1	Siddhänta, m						
			T OF THE	æmen	imen(COM	
Kalı ye a r			MEAN LUNI-SOLAR CIVIL DAY ON WHICH			LAR YRAB.	Mean so
	a (here=1, the index of the tithi)	Week-day	Day and month, A.D	Mēsha-	Tim mean samk	Week-day.	Day and month, A.D
1	23	20	19 '	17		14	13
3896	220 2959	6 Fr	7 Mar (66)	f S 7 30	H I	1 Sun	23 Mar (82)
3897	95 9793	3 Tues	24 Feb (55)	0 0	19 4	2 Mon .	23 Mar (82)
3898	130 6189	2 Mon	14 Mar (74)	2 30	1 5	4 Wed	23 Mar (83)
3899	6 3023	6 Fr	3 Mar (62)	5 0		5 Thur	23 Mar (82) .
3900	40 9419	5 Thur	22 Mar (81)	7 30	14 1	6 Fr1 .	23 Mar (82)
3901	255 2572	3 Tues	12 Mar (71)	0 0	20 3	0 Sat	23 Mar (82).
3902	130 9406	O Sat .	29 Feb (60)	2 30	2 4	2 Mon	23 Mar (83) .
3903	165-5802	6 Fm .	19 Mar (78)	5 0	8 8	3 Tues .	23 Mar (82)
3904	41 2636	3 Tues .	8 Mar (67)	7 30	15	4 Wed .	23 Mar (82)
3905	255 5789	1 Sun	26 Feb (57) .	0 0	21	5 Thur	23 Mar. (82)
3906;	290 2185	0 Sat .	16 Mar (76)	2 30	3 :	0 Sat	23 Mar (83)
3907	165 9018	4 Wed .	5 Mar (64) .	5 0	9 4	1 Sun	23 Mar (82)
3908	41 5852	1 Sun .	22 Feb (53)	7 30	15	2 Mon	23 Mar (82)
3909	76 2248	0 Sat .	13 Mar (72)	0 0	22	3 Tues	23 Mar (82) .
3910	290 5401	5 Thur	2 Mar (62) .	2 30	4 :	5 Thur .	23 Mar (83)
3911	325 1798	4 Wed .	21 Mar (80) .	5 0	10	6 Fra	23 Mar (82'
3912	200-8631	1 Sun .	10 Mar (69) .	7 30	16	0 Sat .	23 Mar (82) .
3913	76 5465	5 Thur .	27 Feb (58)	0 0	23	1 Sun	23 Mar (82)
3914	111 1862	4 Wed	17 Mar (77) .	2 30	5	3 Tues	23 Mar (83)
3915	325-5013	2 Mon .	7 Mar (66)	25 0	11	4 Wed	23 Mar (82).
3916	201 1847	6 Fri	24 Feb (55)	37 30	17	5 Thur	23 Mar. (82)
3917	235 8244	5 Thur	15 Mar (74) .	50 0	23	6 Fm .	23 Mar (82) .
3918	111 5078	2 Mon .	3 Mar (63)	2 30	6	1 Sun .	23 Mar (83)
3919	146 1473	1 Sun	22 Mar. (81) .	15 0	12	2 Mon .	23 Mar (82)
3870	21 8307	5 Thur	11 Mar (70) .	2 7 30	18	3 Tues	23 Mar (82)

					1			11
Mean Intercalated (adhika) luna	BIVATSARA.	Jovian Sa			lar year	ıkrama		
month	Northern system	Southern system	A.D	Kollam	Möshädı solar ın Bengal	Chatrādı Vıkrama	Saka	Kalı
8 <i>a</i>	7	6	5	4	32	3	2	1
8 Kärttika	ambat	32 Vil	819 20		226	877	742	3921
	rearin	34 Sā	*820 21		227	878	743	3922
	iva	35 Pla	821-22		228	879	744	3923
4 Āshādha	bhakrit	36 Śui	822 23		229	880	745	3924
	ohana	37 Ś ol	823 24	{	230	881	746	3925
	ōdhın	38 Kr	*824-25		231	882	747	3926
1 Chaitra	ivāvasu	39 V1	825-26	01	232	883	748	3927
	rābhava	40 Pa	826-27	1-2	233	884	749	3928
10 Pausba	wanga	41 Pl	827-28	2-3	234	885	750	3029
	laka .	42 Ki	*828 29	34	235	886	751	3 930
***	umya .	43 Sa	829 30	4.5	236	887	752	1868
6 Bhādrapad	dhārana .	44 Sā	830 31	56	237	888	753	8 932
•••	rödhakrit	45 V2	831-32	67	238	889	1 .02	3 933
***	eridhävin	46 Pe	*832-33	7-8	1 -00	1	1	3934
3 Jyēshtha	amādin .	47 Pı	833 34	1 88	240			3935
	nanda	48 Ā	834 35	1 0 20		1	1	3936
11 Māgha	ākshasa	49 R	′ 835 36		1	1	1	393
	nala	50 A	*836 37		1	1	1	393
	nigala	51 P	837-38		1	1		394
8 Kārttika	ālayukta		838 39		06 24 07 24	1		394
	ddharthm		830 40	1	98 24			39
	audra		1	48 16 17	\			39
4 Ashidha	durmatı			49 17 18	- { ``		44 70	30
	ondubhi Sudhirödgänn	ł	1 10	50 18.19	- 1	60 9	45 7	38

[†] By both mean and true systems 33 Vikärin was expunged

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1 Arya Siddhānta, mean system.

	COMMENCEMENT OF THE												
Mean s	OLAB YEAR.			MEAN LUNI-SOLAI									
Day and Month, A.D	Week-day.	Time of mean Mesh samkränt	B	Day and month, A. D	Week-day	a (here=t, the index of the tithi)	Kalı ycar						
13	14	17		19	20	23	1						
24 Mar (83)	5 Thur .	H M 0 40	S 0	1 Mar (60) .	3 Tues.	236 1460	3921						
23 Mar (83)	6 Fri.		30	19 Mar (79)	2 Mon.	270 7856	3922						
23 Mar (82)	O Sat.	13 5	0	8 Mar (67) .	6 FrL	146 4690	3923						
23 Mar (82)	1 Sun.	19 17	30	25 Feb (56) .	3 Tues.	22 1524	3924						
24 Mar (83)	3 Tues.	1 30	0	16 Mar (75) .	2 Mon	56 7920	3925						
23 Mar (83)	4 Wed.	7 42	30	5 Mar (65) .	0 Sat.	271 1073	3926						
23 Mar (82)	5 Thur	13 55	0	22 Feb (53)	4 Wed.	146 7906	3927						
23 Mar (82)	6 Fra	20 7	30	13 Mar (72) .	3 Tues.	181 4303	3928						
24 Mar (83)	1 Sun .	2 20	0	2 Mor (61) .	0 Sat.	57 1137	3929						
23 Mar (83)	2 Mon.	8 32	30	20 Mar (80) .	6 Fr	91 7533	3930						
23 Mar (82)	3 Tues.	14 45	0	10 Mar (69) .	4 Wed.	306 0686	3931						
23 Mar (82)	4 Wed.	20 57	30	27 Feb (58) .	1 Sun	181 7519	3932						
24 Mar (83)	6 Fm .	3 10	0	18 Mar (77) .	O Sat .	216 3916	3933						
23 Mar (83)	O Sat.	9 22	30	6 Mar (66) .	4 Wed.	92 0749	3934						
23 Mar (82)	1 Sun	15 35	0	24 Feb (55) .	2 Mon	306 3902	3935						
23 Mar (82)	2 Mon	21 47	30	14 Mar (73) .	0 Sat.	2 3979	3936						
24 Mar (83)	4 Wed.	4 0	0	4 Mar (63) .	5 Thur .	216 7132	3937						
23 Mar (83)	5 Thur .	10 12	30	22 Mar (82) .	4 Wed.	251 3528	3938						
23 Mar (82)	6 Fra.	16 25	0	11 Mar (70)	1 Sun.	127 0362	3939						
23 Mar (82)	0 Sat .	22 37	30	28 Feb (59)	5 Thur	2 7176	3940						
24 Mar (83)	2 Mon	4 50	0	19 Mar (78)	4 Wed.	37 3592	9941						
23 Mar (83)	3 Tues	11 2	30	8 Mar (68) .	2 Mon.	251 6745	3942						
23 Mar (82) .	4 Wod.	17 15	0	25 Feb (56) .	6 Fri	127 3579	3943						
23 Mar (82) .	5 Thus.	23 17	30	16 Mar (75) .	5 Thur .	161 9975	3944						
24 Mar (83) .	0 Sat.	5 40	0	5 Mar (64) .	2 Mon.	37 6809	3945						

TABLE

				CONC	JRRENT YE	CAR		1	
		ama	year			Jovian sa	ABIVATSABA		Mean Interculated
Kalı	Saka	Chaitrādi Vikrama	Mēshādı solar vn Bengal	Kollam	A D	Southern system	Northern system		(adhil a) lunar month.
1	2	3	3a	4	5	6	7		8a
3946	767	902	251	19-20	*844 45	58 Rak	tāksha		1 Chaitea
3947	768	903	252	20-21	845 46	59 Krč	idhana		
3948	769	904	253	21 22	846 47	60 Ksl	наув .		9 Märgasira
3949	770	905	254	22 23	847-48	1 Pra	bhava .		
3950	771	906	255	23-24	-*848 49	2 V 1b	hava		
3951	772	907	256	24 25	849 50	3 Suk	ila .		6 Bhādrapada
3952	773	908	257	25 26	850-51	4 Pra	moda .		
3953	774	909	258	26 27	851-52	5 Pra	jāpatı .		
3954	775	910	259	27-28	*852 53	6 An	giras		2 Vaišākha
3955	776	911	260	28 29	853 54	7 Srie	mukha .		
3956	777	912	261	29 30	854 55	8 Bh	āva		11 Mägha
3957	778	913	262	30 31	855 56	9 Yu	van		C
3958	779	914	269	31-32	*856 57	10 Dh	ātŗı		
3959	780	915	264	32 33	857 58	11 I év	ara .		7 Āśvin
3960	781	916		33-34	858 59	12 Ba	hudhānya		
3961	782	917		02-00	859 60	13 Pre	smāthin	•	
3962	783	918	1	1 33	*860 61	14 V ₁	trama		4 Āśhāḍha
3963 3964		919			861 62	15 V _T	ısha .		
3965	1				862 63	16 Ch	ıtrabhānu		12 Phālguna
3966	1	1		1	863-64	17 Su	bhānu	•	
3967	1				*864-65	18 Tā	rana	•	
3968			i i	_	865 66	19 Pā	rthive .	•	9 Mārgaéira
3009	1	1			866-67	20 Vy	aya .	•	
3970		1			867-68	21 Sa:	rvajit		
====		1		5 43 44	*868 69	22 Sa:	rvadhārm .		6 Bhādrapads

[†] By the " Indian Calendar " 5 Śrāvana was intercalated.

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1 Ārya Siddhānta, mean system.

	siddhanta, m	<u> </u>					
			T OF THE	CMEN	MENCE	COM	
Kalı year.			Mean Luni solar Civil day or which			day ma	Maan so
	a (here=t, the index of the tithi)	Week day.	Day and month,	lčeha	Time c mean Me samkrā	Vock-day.	Day and month, A.D.
1	23	20	19		17	14	13
3946	251 9960	0 Sat	23 Feb (54)		H M 11 52	Sun	23 Mar (83) .
3947	286 6357	6 Fm	13 Mar (72)	0	18 5	Mon .	23 Mar (82)
3948	102 3191	3 Tues .	2 Mar (61)	30	0 17	Wed .	24 Mar. (83)
3949	196 9588	2 Mon	21 Mar (80)	0	6 30	Thur .	24 Mar (83)
3950	72 6421	6 Fm .	9 Mar (69) .	30	12 42	Fri	23 Mar (83)
3951	286 9573	4 Wed	27 Feb (58)	5 0	18 55	Sat	23 Mar (82)
3952	321 5970	3 Tues .	18 Mar. (77)	7 30	1 7	Mon .	24 Mar (83)
3953	197 2603	0 Sat .	7 Mar. (66)	0 0	7 20	3 Tuos	24 Mar (83)
3954	72 9637	4 Wed	24 Feb (55)	2 30	13 32	Wed .	23 Mar (83)
3955	107 6033	3 Tues .	14 Mar (73) .	5 0	19 45	б Thur	23 Mar (82)
3958	321 9186	1 Sun	4 Mar (63)	7 30	1 57	O Sat .	24 Mar (83) .
3957	17 9263	6 Fri .	22 Mar (81) .	0 0	8 10	1 Sun	24 Mar (83)
3958	232 2416	4 Wed .	11 Mar (71) .	2 30	14 22	2 Mon .	23 Mar (83)
3959	107 9250	1 Sun .	28 Feb (59) .	5 0	20 25	3 Tues .	23 Mar (82)
3960	142 5646	0 Sat .	19 Mar (78) .	7 30	2 47	5 Thur .	24 Mar (83) .
3961	18 2480	4 Wod	8 Mar (67) .	0 0	9 0	6 Fri .	24 Mar (83)
3962	232 5683	2 Mon .	26 Feb. (57) .	2 30	15 12	0 Sat .	23 Mar (83)
3963	267-2029	1 Suc.	16 Mar (75) .	5 0	21 25	1 Sun .	23 Mar (82)
3964	142 8863	5 Thur .	5 Mar (64) .	7 30	3 37	3 Tues 🖕	24 Mar (83) .
3965	177 5259	4 Wed.	24 Mar. (83) .	0 0	9 50	4 Wed	24 Mar (83)
3966	53-2093	1 Sun	12 Mar (72) .	2 30	16 2	5 Thur	23 Mar (83) .
3967	287-5245	6 Fri.	2 Mar. (61) .	5 0	22 15	6 Fn .	23 Mas (82)
3968	302-1642	5 Thur	21 Mar. (80) .	7 30	4 27	1 Sun .	24 Mar (83)
3969	177-8478	2 Mon.	10 Mar (69) .	0 0	10 40	2 Mon .	24 Mar (83)
3970	63 5309	6 Fri.	27 Feb (58) .	52 30	16 52	3 Tues	23 Mar. (83)

				C	ONCURR	ENT YEAR	t.			
Kalı.	Saka	Chatradı Vıkrama	Meshadı solar year	ın Bengal	Collam	A.D	JOVIAN SAR Southern systom	Norther system		Mean Interculated (adhika) lunar month
1	2	3		la –	4	б	6	7		8a
3971	792	1	- 1	276	44 45 45 46	869-70 870 71	23 Vii 24 Vil	ödhin		••
3 972 3 973	793		1	277 278	46 47	871-72	25 Kb			2 Variākha
3974	79	~ ·		279	47-48	*872-73				• •
3975	79	- 1		280	48 49	873-74	27 Vi	jaya .	.]	11 Mägha
3 976	79	7 8	932	281	49 50	874-75	28 Ja	ув .	1	
3977	78	8 8	933	282	50 51	875-76	29 M	anmatha	.	
3978	79	99	934	283	51 52	*876-77	30 D	urmukha	1	7 Asvins
3979	8	00	935	284	52 53	877-78	31 H	ēmalamba	1	
3980	8 0	01	936	285	53 54	878 79	32 V	ılamba .	1	. 1
398		- 1	937	286	54 55	879 80	33 V	ıkānn .	.	4 Āshādha
398		03	938	287	55 56	*880 81	34 Si	arvann .		•
398	1	304	939	288	56 57	881-82	35 P	•		12 Phälguna .
398	i	805	940	289	57 58	882 83		ubhakrit	•	P
39	1	807	941	290	58 59	883 84		öbhana.	• •)
39		808	943	291 292	59 60 60 61	*884-85 885 86		Grödkın .	•	9 Märgaine .
	88	809	944	293	61-62	886 87		iśvāvasu	• •	•
39	89	810	945	294	62 63	887 88		'arābhava 'lavanga .	•	r 6 -
39	990	811	946	295	1	*888 89		Kilaka .		5 Śrāvana .
27	991	812	947	296	1	889 90	ì	Saumya .		
	592	813	948	297	65 66	890 91	1	sādhāraņa		2 Vaišākha .
	993	814	949	298	66 67	891-92		Vırödhakrıt		
	1994	815	950	1	67 68	*892 93	46]	Pandhāvin		10 Paushs
-	3995	816	951	300	68 69	893 94	47]	Pramādin		•••

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1 Ārya Siddhanta, mean system.

			T OF THE	ME	ENCE	VMI	CO.				
Kau year.			Mi an Luni solar Civil day on which				AR.	OLAR TEA	AN S	Ме	
	a (here=t, the index of the tithi)	Week day	Day and month,	Time of mean Mesha samkränti		me	lay	Week day		nd mont	
1	23	20	19		17			14		13	
3971	88 1705	5 Thur	17 Mar (76)	S 0	M 5	H 23		4 Wed		(82)	23 Mar
3972	302 4858	3 Tues	7 Mar (66)	30	17	5		6 Fri	.	(83)	24 Mar
3973	178 1692	0 Sat	21 Feb (55)	0	30	11		0 Sat	.	-	24 Mar
3974	212 8088	6 Fri	14 Mar (74)	30	42	17		1 Sun			23 Mar
3975	88 4922	3 Tues	3 Mar (62)	0	55	23		2 Mon			23 Mar
3976	123 1318	2 Mon	22 Mar (81)	30	7	6		4 Wed			24 Mar
3977	9998 8151†	6 Fri	11 Mar (70)	0	20	12		5 Thur		(83)	24 Mar
3978	213 1304	4 Wed	29 Feb (60)	30	32	18		6 Fn		(83)	23 Mar
3979	247 7700	3 Tues	19 Mar (78)	0	45	0		1 Sun		(83)	24 Mar
3980	123 4535	0 Sat	8 Mar (67)	30	57	6		2 Mon		(83)	24 Mar
3981	9999 1368†	4 Wed	25 Feb (56)	0	10	13		3 Tues	.	(83)	24 Mar.
3982	33 7764	3 Tuoq	15 Mar (75) .	30	22	19		4 Wed		(83)	23 Mar
3983	248 0917	1 Sun.	5 Mar (64)	0	35	1		6 Fri		(83)	24 Mar
3984	282 7313	0 Sat .	24 Mar (83) .	30	47	7		0 Snt		(83)	24 Mar
3985	158 4147	4 Wed.	13 Mar (72) .	0	0	13	•	1 Sun		(83) .	24 Mar
3986	34 0980	1 Sun	1 Mar (61)	30	12	20		2 Mon		(83) .	23 Mar
3987	68 7377	0 Sat	20 Maz (79)	0	25	2		4 Wed		(83)	24 Mar
3388	283 0530	5 Thur .	10 Mar (69)	30	37	8		5 Thur		(83)	24 Mar
3989	158 7364	2 Mon	27 Feb (58) .	0	50	14		6 Frı		(83)	24 Mar
3990	193 3760	1 Sun	17 Mar (77)	30	2	21	•	0 Sat	•	(83)	23 Mar
3991	69 0594	5 Thur	6 Mar (65)	0	15	3		2 Mon		(83)	24 Mar
3992	283 3746	3 Tues	24 Feb (55)	30	27	9		3 Tues	•	(83)	24 Mar
3993	318 0143	2 Mon.	15 Mar (74)	0	40	15		4 Wed		(83)	24 Mar
3994	193 6976	6 Frı	3 Mar (63)	30	52	21	İ	5 Thur		(83)	23 Mar.
3995	228 3372	5 Thur	22 Mar (81)	0	5	4		0 Sat		(83)	24 Mar

[†] As a mean tithi Chaitra sukla 1 was suppressed the mean luni solar year, was as given in cols 19, 20

				CUNC	JRRENT Y	ŒAR.		
Kau.	Saka	gr Chatradi Vikrama.		Kollam.	A.D	Jovian 8	amvatsara	Mean Internalated (adhika) lunai month
		Chastrac	Mëshadi solar in Bongal	8		Southern system	Northern system	
1	2	3	3a	4	5	6	7	8a
3998	817	952	301	69 70	894 95	48 An	anda	
3997	818	953	302	70 71	895 96	49 Rā	kahana	7 Aávina
3998	8 í 0	954	303	71 72	*896 97	50 An	inla	
3999	820	955	304	72 73	897 98	51 Pi	ngola	
4000	821	956	305	73-74	898 99	1	ilozukta	2 To Salata
4001	822	957	306	74 75	899 900		ldhärthm	3 Jyčahtha
4002	823	958	307	75 76	* 900 01	54 Ra	•	10 70 -1
4003	824	959	308	76 77	901 02		ırmatı	12 Phälguna
4004	825	960	309	77-78	902 03		indubh	
4005	826	961	310	78 79	903 04		ıdhırödgärın	
4006	827	962	311	79 80	*904 05		iktāksha j	9 Mārgasīra Ş
4007	828	963	312	80 8L	905 06	59 Krödhana	-	
4008	629	964	313	81 82	906 07	60 Kshaya‡	60 Kahaya	
4009	830	965	314	82 83	907-08	l Prabhava	1 Prabhava	5 Śrāvana
4010	831	966	315	83-84	*908 09	2 Vibhava	2 Vibhava	
4011	632	967	316	84 85	909 10	3 Sukla	3 Śukla	·
4012	633	968	317	85 86	910 1 i	4 Pramoda	4 Pramoda	2 Vaisākha
4013	834	969	318	86-87	911 12	5 Prajāpatı	5 Prajāpati	
4014	835	970	319	87-88	*912 13	6 Angiras	6 Anguras	10 Pausha
4015	836	971	320	88 89	913 14	7 Srimukha	7 Srimukha	
4016	837	972	821	89 90	914 15	8 Bhāva	8 Bhāva	
4017 4018	838	973	}	90 91	915 16	9 Yuvan	9 Yuvan	7 Āśvīna .
4019	839	974	1	91-92	*916 17	10 Dhātrı	10 Dhātr	•
4020	940	975		92 93	917-18	11 Iśvara	ll Isvara	•
¥020	841	976	325	93 94	918 19	12 Bahudhānya	12 Bahudhānya 13 Pramāthin	3 Jyështha

[†] By the mean system 59 Krödhana was expunged, by the true system 60 Kshaya was the expunged sainstara and the year AD 9056 was called "Krodhana"

† By southern reckoning there was no suppression after this year

§ By the "Indian Calendar" 8 Kärttika was intercalated.

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1 Ārya Siddhānta, mean system

as and applicate Many United Statements. Many	*************	*****			1			-1
\frac{1}{2}	EN AH 3 FAR				MPAN LUNI NOLI CIVIL DAY ON WH	Kalı yea		
Day and month, A D	Week day	Time of mean Mesha-		čahr	Dry and month,	Week day	a (here = 1, the index of the tithi)	
13	14	17			19	20	23	1
24 Mar (\$3)	1 Sun.	H 10	M 17	S 30	11 Mar (70)	2 Mon	104 0206	3996
24 Mar (83)	2 Mon	16	30	0	1 Mar (60)	0 Sat	318 3359	3997
23 Mar (83) .	3 Tues.	22	42	30	18 Mar (78)	5 Thur .	14 3436	3993
24 Mar (83)	5 Thur	4	55	O	8 Mar (67)	3 Tues.	228 6589	3999
24 Mar (83)	6 Fri	11	7	30	25 Гев (56)	0 Sat.	104 3423	4000
24 Mar (83)	0 Sat	17	20	0	16 Mar (75)	6 Fri	138 9819	4001
23 Mar (83)	1 Sun .	23	32	30	4 Mar (64)	3 Tues	14 6653	4002
24 Mar (83) .	3 Tues	5	45	0	23 Mar (82)	2 Mon	49 3049	4003
24 Mar (83)	4 Wed.	11	57	30	13 Mar (72)	0 Sat.	263 6202	4004
24 Mar (83)	5 Thur .	18	10	0	2 Mar (61)	4 Wed	139 3034	4005
24 Mar (84)	0 Sat	0	22	30	20 Mar (80)	3 Tues.	173 9431	4006
24 Mar (83)	1 Sun	6	35	0	9 Mar (68)	0 Sat.	49 6264	4007
24 Mar (83)	2 Mon	12	47	30	27 Feb (58)	5 Thur	263 9418	4008
24 Mar (83)	J Tues	19	0	0	18 Mar (77)	4 Wed	298 5814	4009
24 Mar (84)	5 Thur	1	12	30	6 Mar (66)	1 Sun	171 2647	4010
24 Mar (83)	6 Fri	7	25	n	23 Feb (54)	5 Thur	49 9481	4011
24 Mar (83) .	0 Sat	13	37	30	14 Var (73)	4 Wed	84 5878	4012
24 Mar (83)	1 Sun .	19	50	0	4 Mar (63)	2 Mon	298 9030	4013
24 Mar (84)	3 Tues.	2	2	30	21 Mar (81)	0 Sat.	9994 9109†	4014
24 Mar (83) .	4 Wed.	8	15	0	11 Mar (70)	5 Thur	209 2259	4015
24 Mar (83)	5 Thur	14	27	30	28 Feb (59)	2 Mon.	84 9093	4016
24 Mar (83) .	6 Frı	20	40	0	19 Mar (78)	1 Sun.	119 5490	4017
24 Mar (84)	1 Sun	2	52	30	7 Mar (67)	5 Thur	9995 2324†	4018
24 Mar (83)	2 Mon	9	5	0	25 Feb (56) .	3 Tues	209 5476	4019
24 Mar (83)	3 Tues	15	17	30	16 Mar (75)	2 Mon	244 1872	4020

The civil day corresponding to it, i a, the first day of † As a moan tithi Chaitra Sukla 1 was suppressed the luni solar year was as given in cols 19, 20

H 2

				CONCU	RRENT YE	AR	==			
Kalı	Saka	Chatrādı Vikrama	Meshadi solar year ın Bengal.	Kollam	A.D	Jovian sa Southern system.	MV	Northern system.		Mean Intercalated adluka) lunar month
	2	3	3a	4	5	6	-	7	-	8a
							-		1-	
4021	842	977	326	94 95	919 20	13 Pramāthin .		14 Vikrama .	1	2 Phälguna
4022	843	978	327	95 96	*920 21	14 Vikrama		15 Vrisha	1	••
4023	844	979	328	96 97	921 22	15 Vrisha .		16 Chitrabhānu .	1	
4024	845	980	329	97 98	922 23	16 Chitrabhanu .		17 Subhānu		8 Kārttika .
4025	846	981	330	98 99	923 24	17 Subhānu .		18 Tārana		
4026	847	98	331	99 00	*924-25	18 Tāraņa .		19 Pārthīva	.	
4027	848	98	3 332	100 0	925-26	19 Pārthīva .	1	20 Vynya	.	5 Śrāvana
4028	849	98	4 33	101-0	926 27	20 Vyaya	1	21 Sarvajit.	1	
4029	850	98	5 33	102 0	3 927 28	21 Sarvant		22 Sarvadhānn		
4030	85	1 98	8 33	5 103 0	4 *928 29	22 Sarvadhārın	.	23 Virödhin	.	1 Chaitra
4031	85	2 98	37 33	в 104 (5 929 30	23 Virödhin	.	24 Vikrita	.	
4032	85	3 9	38 33	7 105 (930 3 1	24 Vikrita		25 Khara	.	10 Pausha
4033	88	4 9	89 33	8 106	07 931-32	25 Khara		26 Nandana		
403	4 8	55 9	90 3:	107	08 +932 33	26 Nandana	1	27 Vijaya		
403	5 8	56 9	91 3	108-	09 933 34	27 Vijaya .		28 Jaya .		6 Bhādrapada
403	6 8	57 8	92 3	41 109	10 934 38	28 Jaya .		29 Manmaths		••
403	7 8	58 8	93 3	42 110	11 935 30	3 29 Manmatha		30 Durmukha		
403	- 1	359	994 3	43 111	12 *936-3	7 30 Durmukha		31 Hēmalamba		3 Jyështha .
40		1	995	44 112	-13 937-3	8 31 Hēmalamba		32 Vilamba		•••
40		ì	l	113	14 938-3	9 32 Vilamba		33 Vikārin	•	11 Māgha .
40			- 1		-15 939-4	0 33 Vikārin		34 Sārvarin	•	4.0
		863			-16 +940-4		•	35 Plava .	•	•••
	H3	884	l l		3-17 941-4		•	36 Subhakrit	•	8 Kärttika .
	045			,	7-18 942-4		•	37 Sõbhana	•	
===		866	1001	350 11	3-19 943	37 Sobhana	•	38 Krödhin	•	

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1 Arya Siddhanta, mean system.

1	a Siddearus,		HE	T OF T	MEI	NCE	мме	CO		-		
Kalı year	SUNRISE OF KLA 1 ENDS)				eab.	OLAR YEA	AN S	Me				
	a (here=t, the index of the tithi)	Week-day.	nd month, AD.		ësha-	ime an M mkrā	me	-day	Week-d	th,	y and mont	Da
1	23	20	19			17	一	l .	14		13	
4021	119 8706	6 Fm .	(64)	5 Mai	8	M 30	H 21	1.	4 Wed.		Mar (83).	24 1
4022	154 5102	5 Thur .		23 Mai	30	42	3		6 Fri		far (84)	Ì
4023	30 1936	2 Mon		12 Mar	0	55	9		0 Sat		far (83).	•
4024	244 5089	0 Sat .	(61)	2 Mar	30	7	16		1 Sun.		far (83)	
4025	279 1485	6 Fm	(80)	21 Mar	0	20	22	l.	2 Mon.		far (83) .	
4026	154 8319	3 Tues .	(69)	9 Mar	30	32	4	l	4 Wed		far (84) .	24 N
4027	30 5153	0 Sat .	(57)	26 Feb	0	45	10	r.	5 Thur.		far (83)	24 7
4Q28	65-1549	6 Fm .	(76)	17 Mar	30	57	16		6 Fri		Mar (83).	24 1
4029	279-4701	4 Wed	(66)-	7 Mar	0	10	23		0 Sat	17	Mar (83)	24 1
4030	155 1535	1 Sun .	(55)	24 Feb	30	22	5	l .	2 Mon		Mar (84)	24 1
4031	189 7932	0 Sat .	(73)	14 Mar	0	35	11	B .	3 Tues		Mar. (83)	24 1
4032	65 4765	4 Wed	(62)	3 Mar	30	47	17	ı	4 Wed		Mar (83)	24 1
4033	100 1162	3 Tues .	(81)	22 Mar	0	0	0		6 Frı	•	Mar (84)	25 1
4034	314,4314	1 Sun	(71)	11 Mar	30	12	6	• .	0 Sat		Mar (84)	24]
4035	190 1148	5 Thur .	(59)	28 Feb	0	25	12		1 Sun	•	Mar (83)	24]
4036	224 7544	4 Wed	(78)	19 Mar	30	37	18		2 Mon		Mar (83).	24]
4037	190 4378	1 Sun .	(67)	8 Mar	0	50	0	i	4 Wed.	•	Mar (84)	25
4038	314 7531	6 Fm .	(57)	26 Feb	30	2	7	r.	5 Thur		Mar (84).	24]
4039	10 7698	4 Wed	(74)	15 Mar	0	15	13	•	6 Frı		Mar (83)	24
4040	225 0661	2 Mon .	(64)	5 Mar	30	27	19		0 Sat		Mar (83)	24
4041	259 7156	1 Sun	· ·	24 Mar	0	40	1	ı.	2 Mon.	•	Mar (84).	1
4042	135 3991	5 Thur .	` '	12 Mar	30	52	7	8.	3 Tues.	•	Mar (84).	
4043	11 0825	2 Mon .	1	1 Mar	0	5	14	1.	4 Wed.		Mar (83).	1
4044	45 7222	1 Sun.	1	20 Mar	80	17	20	r .	5 Thur	•	Mar (83).	ł
4045	260 0474	6 Fa. •	(69)	10 Mar	0	30	2		0 Sat.	•	Mar. (84) .	25

TABLE

				CONCUR	RENT YE	AR		
		Vikrama	ar year			Jovian sai	ALATSARA	Mean Interculated (adhika) lunar
Kalı	Saka	Chaitrádi Vi	Mēshādı solar ın Bengal	Kollam	AD	Southern system	Northern system	(adhika) lunar month
1	2	3	3a	4	5	6	7	8 <i>a</i>
4046	867	1002	351	119 20	*944 45	38 Krödhın	39 Visvāvasu	5 Srāvaņa†
4047	868	1003	352	120 21	945 46	39 Viśvāvasu.	40 Parābhava	
4048	869	1004	353	121-22	946 47	40 Parābhava	41 Plavanga	
4049	870	1005	354	122 23	947-48	41 Plavanga	42 Kīlaka	1 Chaitra
4050	871	1008	<i>8</i> 355	123-24	*948 49	42 Kilaka	43 Saumya	•
4051	872	1007	356	124 25	949 50	43 Saumya	44 Sādhārana	10 Pausha
4052	873	1008	357	125 26	950 51	44 Sādhārana	45 Virödhakrit	
4053	874	1009	358	-126 27	951-52	45 Virödhakrit	46 Paridhävin	
4054	875	1010	359	127 28	*952 53	46 Paridhāvin	47 Pramādin	6 Bhādrapada
4055	876	1011	360	128 29	953 54	47 Pramādin	48 Ananda	
4056	877	1012	361	129 30	954 55	48 Ānanda .	49 Rākshasa	
4057	878	1013	362	130 31	955 56	49 Rākshasa	50 Anala	3 Jyështha
4058	879	1014	303	131 32	*956 57	50 Anala .	51 Pingala	
4059	880	1015	364	132 33	957 58	51 Pingala	52 Kālayukta .	11 Māgha
4080	881	1016	365	133 34	958-59	52 Kālayukta	53 Siddhärthin	
4061	882	1017	366	134 35	959 60	53 Siddhärthin	54 Raudra	
4062	883	1018	367	135 36	*960 61	54 Raudra	55 Durmatı	8 Kārttika
4063	884	1019	368	136 37	961 62	55 Durmatı	56 Dundubhi	
4064]	1020	369	137 38	962 63	56 Dundubhi .	57 Rudhirödgārin	
4065		1021	370	138 39	963 64	57 Rudhırödgärın	58 Raktāksha	4 Āshādha
4088	}	1022	371	139 40	*964 65	58 Raktāksha	59 Krödhana	_
4067	1	1023	372	140 41	965 66	59 Krödhana	60 Kshaya	•
4068	1	1	378	141 42	966 67	60 Kshaya	1 Prabhava	l Chaitra
4069	1	1	374	142 43	967 68	l Prabhava	2 Vibhava	
4070	991	1026	375	143 44	*968 69	2 Vibhava	3 Sukla	9 Mārgasira

[†] By the "Indian Calendar" the intercalated menth was 4 Ashadha

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1 Ārya Siddhānta, mean system

	CON	IVENCEVEN	T OF THE			
Biean :	SOLAR YFAR		Mean luni solar civil day on whic			
Day and month, A D	Week day	Time of mean M sha- samkränti	Dig and month,	Week day	a (here=t, the index of the tithi)	Kalı year
13	14	17	19	20	23	1
24 Mar (84) .	1 Sun	H N S 8 42 30	27 Feb (58)	3 Tues	135 7207	4046
24 Mar (83)	2 Mon	14 55 0	17 Mar (76)	2 Mon	170 3603	4047
24 Mar (83)	3 Tues	21 7 30	6 Mar (65)	6 Fri	46 0436	4048
25 Mar (84)	5 Thur	3 20 0	24 Feb (55)	4 Wed	260 3590	4049
24 Mar (81) .	6 Fn	9 32 30	14 Mar (74)	3 Tues	294 9986	4050
24 Mar (83)	0 Sat .	15 45 0	3 Mar (62)	0 Sat	170 6819	4051
24 Mar (83)	1 Sun	21 57 30	22 Mar (81) .	6 Frı	205 3216	4052
25 Mar (84)	3 Tues .	4 10 0	11 Mar (70)	3 Tues	81 0049	4053
24 Mar (84)	4 Wed	10 22 30	29 Feb (60)	1 Sun	295 3203	405 4
24 Mar (83)	5 Thur	16 35 0	19 Mar (78)	0 Sat	329 9599	4055
24 Mar (83)	6 Fm	22 47 30	8 Mar (67)	4 Wed	205 6432	4056
25 Mar (84)	1 Sun	5 0 0	25 Feb (56)	1 Sun	81 3266	4057
24 Mar (84)	2 Mon	11 12 30	15 Mar (75)	0 Sat	115 9662	4058
24 Mar (83)	3 Tues	17 25 0	5 Mar (64)	5 Thur	330 2815	4059
24 Mar (83)	4 Wed	23 37 30	23 Mar (82)	3 Tues	26 2892	4060
25 Mar (84)	6 Fn	5 50 0	13 Mar (72)	1 Sun	240 6045	4061
24 Mar (84)	0 Sat	12 2 30	1 Mar (61)	5 Thur	116 2879	4062
24 Mar (83) .	1 Sun	18 15 0	20 Mar (79)	4 Wed	150 9275	4063
25 Mar (84)	3 Tues	0 27 30	9 Mar (68) .	1 Sun .	26 6109	4084
25 Mar (84)	. 4 Wed	6 40 0	27 Feb (58)	6 Fri .	240 9262	4065
24 Mar (84)	5 Thur	12 52 30	17 Mar (77) .	5 Thur	275 5658	4066
24 Mar (83)	6 Fra	19 5 0		2 Mon	151 2491	4067
25 Mar (84)	1 Sun.	1 17 30	23 Feb (54)	6 Fra	26 9325	4068
25 Mar (84)	. 2 Mon	7 30 0	14 Mar (73)	5 Thur	61 5721	4069
24 Mar (84)	3 Tues	13 42 30	3 Mar (63)	3 Tues	275 8874	4070

				CONCU	RRENT Y	EAR		
		ıkrama	lar year			JOVIAN 8	amvatsar á	Mean Intervalated (adh'ta) lunar
Kalı	Saka.	Chaitrādi Vikrama	Mëshādi solar ın Bengal	Kollam	A.D	Southern system	Northern system	e'onth.
1	2	3	3a	4	5	6	8	Sa
4071	892	1027	376	144 45	969-70	3 Sukla	4 Pramoda	
4072	893	1028	377	145 46	970 71	4 Pramoda	5 Prajāpati	
4073	894	1029	378	146 47	971 72	5 Prajāpati	6 Angiras	6 Bhadrapada
4074	895	1030	379	147 48	*972 73	6 Angiras	7 Śrīmukha .	
4075	896	1031	380	148 49	973 74	7 Srimukha	8 Bhāva	
4076	897	1032	381	149 50	974 75	8 Bhāva	9 Yuvan	2 Varšākha
4077	898	1033	382	150 51	975 76	9 Yuvan	10 Dhātra	
4078	899	1034	383	151 52	*976 77	10 Dhātrı	11 Iśvara	ll Magha
4079	900	1035	384	152 53	977-78	11 Isvara	12 Bahudhānya	
4080	901	1036	385	153 54	978 79	12 Bahudhānya	13 Pramāthin	
4081	902	1037	386	154 55	979 80	13 Pramāthın	14 Vikrama	8 Kärttika †
4082	903	1038	387	155 56	*980 81	14 Vikrama	15 Vrisha	
4083	904	1039	,388	156 57	981 82	15 Vrisha	16 Chitrabhānu	
4084	905	1040	389	157 58	982 83	16 Chitrabhānu	17 Subhānu	4 Āshādha
4085	906	1041	390	158 59	983 84	17 Subhānu	18 Tārana	
4086	907	1042	391	159 60	*984 85	18 Tārana .	19 Pārthīva	
4087	908	1043	392	160 61	985 86	19 Pārthīva	20 Vyaya	l Chaitra
4088	909	1044	393	161 62	986 87	20 Vyaya	21 Sarvajit	
4/89 4090	910	1045	394	162 63	987 88	21 Sarvajit	22 Sarvadhārın	9 Mārgasīra .
4091	911	1046	395	163 64	*988 89	22 Sarvadhārın	23 Virôdhin	
4092	912	1047	396	164 65	989 90	23 Virôdhin	24 Vikrita ‡	1 3
4093	913	1048	397	165 66	990 91	24 Vikrita	26 Nandana	6 Bhādrapada
4094	914	1049	398	166 67	991 92	25 Khara .	27 Vijaya	
4095	916	1050	399	167 68	*992 93	26 Nandana	28 Jaya	
	1 310	1051	400	168 69	993 94	27 Vijaya	29 Manmatha	2 Varšākha

[†] By the "Indian Calendar" 7 Asi ma was intercalated ‡ 25 Khara was expunsed in the north by the mean system, but 26 Nandana by the true system. By the true system the year A.D 990 91 was, in the north, called "Khara"

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1 Ārya Siddhānta, mean system.

					a Siddlighth, D	een bystem
	co	mmenci.Mei	NT OF THE			
Mean e	OLAR YEAR.		MFAR LURI SOLAI CIVIL DAY ON WHIC	R 1FAR (MEAI CH CHAITRA SI	sunrist of Jala 1 ends).	Kalı year
Day and month,	Week-day	Time of mean Misha- samkränti	Day and month,	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
24 Mar (83)	4 Wed	H M S	22 Mar (81)	2 Mon	310 5271	4071
25 Mar (84) .	6 In	2 7 30	11 Mar (70)	6 Fri	186 2104	4072
25 Mar (84) .	0 Sat	8 20 0	28 Feb (59)	3 Tues	61 8939	4073
24 Mar (84)	1 Sun .	14 32 30	18 Mar (78)	2 Mon	96 5335	4074
24 Mar (83)	2 Mon	20 45 0	8 Mar (67)	0 Sat	310 8487	4075
25 Mar (84)	4 Wed	2 57 30	25 Feb (56)	1 Wed	186 5321	4076
25 Mar (84)	5 Thur	9 10 0	16 Mar (75)	3 Tues	221 1716	4077
24 Mar (84)	6 Fn.	15 22 30	4 Mar (61)	0 Sat	96 8550	4078
24 Mar. (83)	0 Sat	21 35 0	23 Mar (82)	6 Fri	131 4946	4079
25 Mar (84)	2 Mon	3 47 30	12 Mar (71)	3 Tues	7 1781	4080
25 Mar (84) .	3 Tues	10 0 0	2 Mar (61)	1 Sun	221 4933	4081
24 Mar (84)	4 Wed	16 12 30	20 Mar (80)	0 Sat	250 1329	4082
24 Mar (83)	5 Thur	22 25 0	9 Mar (68)	4 Wed	131 8163	4083
25 Mar (84) .	0 Sat	4 37 30	26 Feb (57) .	1 Sun	7 4998	4084
25 Mar (84)	1 Sun	10 50 0	17 Mar (76)	0 Sat	41 1393	4085
24 Mar (84) .	2 Mon	17 2 30	6 Mar (66) .	5 Thur	256 4546	4086
24 Mar (83) .	3 Tues	23 15 0	23 Feb (54)	2 Mon	132 1379	4087
25 Mar (84)	5 Thur	5 27 30	14 Mar (73) .	1 Sun	166 7776	4088
25 Mar (84) .	6 Fm .	11 40 0	3 Mar (62)	5 Thur	42 4610	4089
24 Mar (84) .	0 Sat .	17 52 30	21 Mar (81)	4 Wed	77 1006	4090
25 Mar (84)	2 Mon .	0 5 0	11 Mar (70)	2 Mon	291 4158	4091
25 Mar (84)	3 Tues .	6 17 30	28 Feb (59) .	6 Fri	167 0092	4092
25 Mar (84) .	4 Wed	12 30 0	19 Mar (78)	5 Thur	201 7389	4093
24 Mar (84)	5 Thur .	18 42 30	138	2 Mon	77 4222	4094
25 Mar (84) .	0 Sat	c 55 0	25 Feb (56)	0 Sat	291 7375	4095

				CONCU	RRENT Y	EAR				
		krams.	or year			JOVIAN S	AM	VATSARA.		Mean Intercalated (adhika) lunar
Kalı.	Saka.	Chaitrādi Vikrama,	Meshadı solar ın Bengal	Kollam.	AD	Southern system		Northern system		month.
1	2	3	3a	4	5	6		7		8a
4096	917	1052	401	169 70	994 95	28 Jaya .		30 Durmukha		•
4097	918	1053	402	170 71	995 96	29 Manmatha	٠	31 Hēmalamba		11 Mägha
4098	919	1054	403	171 72	*996 97	30 Durmukha		32 Vilamba		•
4092	920	1055	404	172 73	997 98	31 Hēmalamba		33 Vikārin	\cdot	••
4100	921	1056	405	173-74	998 99	32 Vilamba		34 Särvarin	\cdot	7 Auvina .
4101	922	1057	406	174-75	999 000	33 Vikārın		35 Plava .		••
4102	923	1058	407	175 76	*1000 01	34 Sārvarin	•	36 Subhakrit		•
4103	924	1059	408	176-77	1001-02	35 Plava		37 Söbhana		4 Ashādha .
4104	925	1050	409	177-78	1002 03	36 Subhaknt		38 Krōdhin		
4105	926	1061	410	178 79	1003 04	37 Sõbhana		39 Viávāvasu	•	12 Philguna .
4106	927	1062	411	179 80	*1004 05	38 Krödhın		40 Parabhava		
4107	928	1063	412	180-81	1003 06	39 Višvāvasu	•	41 Plavanga		•
4108	929	1064	413	181-82	1006 07	40 Parābhava	•	42 Kilaka	•	9 Märgasīra .
4109	930	1065	414	182-83	1007,08	41 Plavanga	•	43 Saumya		•••
4110	931	1066	415	183 84	*1008 09	42 Kilaka		44 Sādhāraņa		••
4111	932	1067	416	184-85	1009-10	43 Saumya	•	45 Virodhakrit	•	5 Srāvaņa .
4112			1	185-86	1010 11	44 Sādhārana		46 Paridhāvin	•	
4113	1			186-87	1011-12	45 Vırödhakrıt	•	47 Pramādur	•	,
4114	1	}	1	1	*1012.13	46 Pandhāvin	•	48 Ānanda	•	2 Vaišākha .
4115	1	1				47 Pramidun	•	49 Rālahssa	•	
4116		1		1	1	48 Ananda	•	50 Anala .	i	10 Pausha .
4117	. }			1	}		•	51 Pingala	-	
411		1					•	52 Kālayukta		
412						1	•	53 Siddhärthin	•	7 Āśvina .
700	0 04	1 107	6 42	5 193 94	1018-19	52 Kālayakta	•	54 Raudra	•	•••

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1 Ārya Siddhānta, mean system.

	COMMENCEMENT OF THE										
			ent of the	NCEM	OMME	C					
Kalı year.	Mean Luni-solar year (mean surrise of civil day on which Chaitra Surla 1 ends)					LAR YNAR.	Mran s				
	a (here=t, the index of the tithi)	Week-day.	Day and month,	e of Mésha- ränti	mean !	Wook-day	Day and month, A.D				
1	23	20	19	7	1	14	13				
4096	326-8771	6 Fm	16 Mar (75) .	f S		1 San	25 Mar. (84)				
4097	202 0505	3 Tuee .	8 Mar (64)	U O	13 2	2 Mon	25 Maz (84) .				
4098	236 7001	2 Mon.	23 Mar (89)	2 30	19 3	3 Tues	24 Mar (84)				
4099	112 3835	6 Fm	12 Mar (71)	5 0	1 4	5 Thur .	25 Mar. (84) .				
4100	326 6988	4 Wed .	2 Mar (61)	7 3 0	7 8	6 Pri .	25 Mar (84) .				
4101	22-7065	2 Most.	20 Mar (79) .	0 0	14 1	0 Set .	25 Mar (84)				
4102	237-0218	d Sat.	9 Mar (69) .	22 30	20 2	1 Sun .	24 Mar (84)				
4103	112-7052	4 Wed .	26 Feb (67) .	35 O	2 :	3 Tues.	25 Mar (84) .				
4104	147 3448	3 Tues .	17 Mar (76) .	17 30	8	4 Wed.	25 Mar (84)				
4105	23 0272	0 Sat .	6 Mar (65) .	0 0	1.5	5 Thur .	25 Mar (84) .				
4106	57-6667	6 Fri	24 Mar (84)	12 30	21	6 Fn .	24 Mar (84) .				
4107	271-9631	4 Wed .	14 Mar (73)	25 Ø	3	1 Sun .	25 Mar (84) .				
4109	147 8865	1 San .	3 Mar (62)	37 30	9 :	2 Mon .	25 Mar (84) .				
4166	182 3061	O Sat	22 Mar (81) .	50 O	15	3 Tues	25 Mar (84)				
4116	57 9894	4 Wed.	10 Mar. (70) .	2 30	22	4 Wed .	24 Mar (84)				
4131	272-3047	2 Mon	28 Feb. (59) .	15 0	4	6 Fm .	25 Mar (84) .				
4115	395 9444	1 Son	19 Mar. (78) .	27 30	10	0 Sat	25 Mar (84)				
4173	182 6277	5 Thur .	8 Mar. (67)	40 O	18	I Sun	25 Mar (84) .				
4114	58 3111	2 Mon	25 Feb. (56) .	52 30	22	2 Mon .	24 Mar (84) .				
4115	92 9507	I Som	15 Mar (74) .	5 0	5	4 Wed .	25 Mar (84) .				
4116	397 2659	6 Fr	5 Mar. (64)	17 30	11	5 Thur .	25 Mar (84)				
4117	3-2737	4 Wod	23 Mar (82) .	30 0	17	6 Fr	25 Mar (84)				
4118	217-5890	2 Mon .	12 Mer. (72)	42 30	23	0 Sat	24 Mar (84)				
4110	93-2723	6 Fri.	1 Mar. (60)	<i>5</i> 5 0	5	2 Mon .	25 Mar (84) .				
4120	127-9119	5 Thur	20 Mar. (79) .	7 30	12	3 Tues .	25 Mar (84)				

					CONC	URR	ENT YE	AR		
		Tama.		r year				JOVIAN SAN	NATSABA	lican Intercalated (adhika) lunar
Kalı	Saka	Chatrada Vikrama.		Mishadı solar ın Bengal	Kollam.	A	A.D	Southern system	Northern system.	month
1	2		3	3a	4		5	G	7	8a
4121	942	1(777	426	194 95	1	019 20	53 Siddhärthin	55 Durmatı .	
4122	943	10	078	427	195.98	+1	020 21	54 Raudra	56 Dundubhi .	4 Āshādha ‡ .
4123	94	1	079	428	196 97	1	021-22	55 Durmati	57 Rudhirödgärin	
4124	94	5 1	080	429	197 9	1	1022 23	58 Dundubhı	58 Raktāksha .	12 Phälguna
4125	94	в 1	081	430	198 9) ;	1023 24	57 Rudhırödgärin	59 Krödhana -	
4126	94	7 1	082	431	1 299 0	•	1024-25	58 Raktāksha .	60 Kshaya .	
4127	94	8 1	083	432	2 200 0	ı	1025 26	59 Krödhana	1 Prabhava .	9'Margasira
4128	94	19 :	1084	43	3 201-0	2	1026 27	60 Kshaya .	2 Vibhava .	
4129	9	50	1085	43	4 202-0	3	1027-28	1 Prabhava .	3 Sukla .	
4130	0 9	51	1086	43	5 203 0	4	1028-29	2 Vibhava	4 Pramoda	5 Srāvaņa
413		52	1087	43	8 204 (5	1029-30	3 Sukla	5 Prajāpati .	
413	1	53	1088	`	37 205	98	1030 31	4 Pramoda	6 Angiras .	•
413		54	1089	` {	38 208	07	1033-32	5 Prajāpati	7 Srimukha .	2 Vaisākhs
413		955	109	_	39 207-	-	*1032-33	1	8 Bhāva	
413	1	956 957	109	- l -	40 208		1033 34		9 Yuvan .	10 Pausha
41	37	958	109	\ \ \ \	41 209	1	1034-35	1	10 Dhātra	1
	38	959	109	Į.	42 210 43 211	- 1	1035-36		11 Iśvara	1
	139	960	10		144 212	- 1	*1036 37 1037-38		12 Bahudhānya	7 Āšvīna
	140	961		_ 1	1	14	1037-30		13 Pramäthin 14 Vikrama	
4	141	962	1	. 1		-15	1039-4	1	. 15 Vrisha	3 Jyështha
4	142	963	10	98	1	5-16	*1040 4		. 16 Chitrabhānu	o oyesama
4	1143	964	10	099	448 21	3 17	1041-4	1	17 Subhānu	12 Phälguna
	4144	965	1	100	449 21	7-18	1042 4	1	18 Tārana	
•	4145	986	3 1	101	450 21	8 19	1043	14 17 Subhānu	. 19 Pārthiva	

by the "Indian Calendar" 3 Jyeshtha was intercalated.

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1 Ārys Siddhānts, mean system.

			ent of the	CEMI	OMMEN	C	
Kali year			Mean Luni solar civil day on Whio			OLAB YEAR.	Mean s
	a (here=1, the index of the tithi)	Week-day	Day and month,	fésha-	Time mean M samkr	Wook-day	Day and month, A.D
1	23	20	19	,	17	14	13
4121	3 5953	2 Mon	9 Mar (68)		H. M	4 Wed	25 Mar (84) .
4122	217 8106	0 Sat .	27 Feb (58) .	30	0 32	6 Fr	25 Mar (85)
4123	252 5502	6 Fra	17 Mar (78)	5 0	6 45	0 Sat .	25 Mar (84) .
4124	128 2336	3 Tues .	6 Mar (65)	7 30	12 57	1 Sun	25 Mar. (84) .
4125	162 8732	2 Mon .	25 Mar (84) .	0	19 10	2 Mon .	25 Mar. (84) .
4126	38 5566	6 Fra .	13 Mar (73)	30	1 22	4 Wed .	25 Mar (85) .
4127	252 8719	4 Wed	3 Mar (62)	5 0	7 38	5 Thur	25 Mar (84) .
4128	287 5115	3 Tues	22 Mar (81)	7 30	13 47	6 Fm	25 Mar (84)
4129	163 1948	O Sat .	11 Mar (70)	0	20 (0 Sat .	25 Mar (84)
4130	38 8782	4 Wed .	28 Feb (59)	2 30	2 1	2 Mon	25 Mar (85) .
4131	73 5179	3 Tues .	18 Mar (77) .	5 0	8 20	3 Tues .	25 Mar (84)
4132	287 8331	1 Sun	8 Mar (67)	7 30	14 3	4 Wed .	25 Mar. (84) .
4133	163 5165	5 Thur	25 Feb (56) .	0 0	20 50	5 Thur.	25 Mar (84)
4134	198 1561	4 Wed	15 Mar (75)	2 30	3 3	O Sat .	25 Mar (85)
4135	73 8395	1 Sun	4 Mar (63) .	5 0	9 1	1 Sun .	25 Mar (84)
4136	108 4791	0 Sat .	23 Mar (82) .	7 30	15 2	2 Mon	25 Mar (84)
4137	322 794 4	5 Thur .	13 Mar (72)	0 0	21 4	3 Tues .	25 Mar (84) .
4138	198 4778	2 Mon .	1 Mar (61)	2 30	3 5	5 Thur.	25 Mar (85)
4139	233 1174	1 Sun	20 Mar (79) .	5 0	10	6 Fr	25 Mar (84) .
4140	108 8008	5 Thur	9 Mar (68)	7 30	f6 1	0 Sat .	25 Mar (84) .
4141	323 1161	3 Tues	27 Feb (58)		22 3	1 Sun .	25 Mar (84)
4142	19 1238	1 Sun.	16 Mar (76)		4 4	3 Tues	25 Mar (85) .
4143	233 4391	6 Fri	6 Mar (65) .		10 5	4 Wed .	25 Mar (84)
4145	268 0787	5 Thur .	25 Mar (84)	7 30	į	5 Thur	25 Mar (84)
4145	143 7621	2 Mon	14 Mar (73) .	0 0	23 2	8 Fri.	25 Mar (84)

TABLE

			IR.	RENT YE	CONCUR			•	
Mean Intercalate (adhika) lur	IVA 75AB A.	SAR	Jovian 1			r year	Vikrama		
month.	Northern system		Southern system.	A.D	Kollam	Möshädı solar ın Bengal.	Chaitradi Vil	Sake	Kalı.
8a	7		6	5	4	3a	3	2	1
. 8 Kärttika	20 Vysya		18 Tāreņs .	*1044-45	219 20	451	1102	967	4146
	21 Sarvajit .	-	19 Pärthres	1045-46	220 21	452	1103	968	4147
	22 Sarvadhānn .		20 Vyaya .	1046-47	221-22	453	1104	869	4148
. 5 Szāvaņa	23 Virodhm .		21 Sarvapit	1047-48	222-23	454	1105	970	4149
	24 Viknta .		22 Sarvadhārin	*1048-49	223-24	455	1106	971	4150
•	25 Khsrs		23 Virodhm	1049-50	224 25	458	1107	972	4151
. I Chaitre	26 Nandara .		24 Vikņta.	1050 51	225-26	457	1108	973	4152
	27 Vijaya .	-	25 Khara .	1051 52	226 27	458	1109	8 74	4153
. 10 Pansha	28 Jaya		26 Nandana	*1052 53	227-28	459	1110	975	4154
	29 Manmaths		27 Vijaya .	1053-54	228-29	460	1111	976	4155
	30 Durmukha	!	28 Jaya	1054 55	229-30	461	1112	977	4156
a . 7 Asvinaj	31 Hēmalamba	•	29 Manmatha	1055-56	230 31	462	1113	978	4157
	32 Vilamba	•	30 Durmulha	*1056-57	231-32	463	1114	979	4158
	33 Vikāna		31 Hēmalamba	1057 58	232 33	464	1115	989	4159
. 3 Jyeshuh	34 Särvarın		32 Vilamba	1058-59		1	1116	981	4160
• •	35 Plava .	•	33 Vikārin	1059 60	234 35	1	1	982	4161
. 12 Phālguz	36 Subhakrit	•	34 Sarrann	1		1	1		4162
•	37 Söbha ra	•	35 Plava .		ł	1		1	4163 4164
	38 Krödhin	•							416
. 8 Käzitük	·39 Viśvāvasu	•	1		1			1	416
i	40 Parabhava	•							416
		•					1		416
			1			1	1		418
	43 Saumya 44 Sādhārana			}		1	1)	417

[†] By the "Indian Calendar" 6 Bhadrapada was the intercalated month.

LXXVI-Contd.

1 Ārya Siddhauta, mean system.

au ajateu	Siddhanta, me	I Alya									
			ENT OF THE	CEMI	IEN(ОМІ	C				
Kalı yean			Mean Luni-solar civil day on which				AR.	OLAR YEA	an s	Ме	
	a (here=t, the index of the tithi)	Week-day.	Day and month,	sha-	ıme c ın Mê nkräi	mea	ay.	Week-da	1,	and mont	Day a
1	23	20	19		17			14	-	13	
4146	19 4454	6 Fm	2 Mar (62)	8. 30	M 32	H 5		1 Sun		. (85)	25 Mar
4147	54.0850	5 Thur	21 Mar. (80)	0	45	11		2 Mon.	l	(84)	25 Mar
4148	268-4003	3 Tues .	11 Mar. (70)	80	57	17		3 Tues.		. (84) .	25 Mar
4149	144 0838	0 Sat	28 Feb (59)	0	10	0		5 Thur.		(85) .	26 Mar
4150	178 7233	6 Fri .	18 Mar (78) .	30	22	6		6 Fr.		(85) .	25 Mar
4151	54 4087	3 Tues .	7 Mar (66)	0	35	12		0 Sat		(84) .	25 Mar
4152	268-7219	1 Sun .	25 Feb (56) .	30	47	18		1 Sun.		(84) .	25 Mar
4153	303 3615	0 Sat.	16 Mar (75)	0	0	1		3 Tues.	.	. (85) .	26 Mar
4154	179 0449	4 Wed .	4 Mar (64) .	30	12	7		4 Wed.	.]	(85) _	25 Mar
4155	213-6845	3 Tues	23 Mar (82) .	0	25	13		5 Thur.	.	:. (84) .	25 Mai
4156	89 3679	0 Sat	12 Mar (71) .	30	37	19		6 Fr1.		(84) .	25 Max
4157	303-6882	5 Thur.	2 Mar (61)	o	50	1	•	1 Sun.		c. (85) .	26 Mai
4158	9999-6909 ş	3 Tues .	19 Mar (79)	30	2	8		2 Mon.		r (85) .	25 Mai
4159	214 0062	1 Sun .	9 Mar (68) .	0	15	14		3 Tues.		r. (84) .	25 Mar
4160	89 6896	5 Thur .	26 Feb (57)	80	27	20	•	4 Wed.		c. (84) .	25 Max
4161	124 3292	4 Wed	17 Mar (76) .	σ	40	2	• ,	6 Fn.		r (85) .	26 Ma
4162	th 0-0128	1 San	5 Mar (65) .	30	52	8	:	0 Sat.		r (85).	25 Ma
4163	84 6522	0 Sat	24 Mar. (83) .	0	5	15	•	1 Sus.		r. (84) .	25 Ma
4164	248 9675	5 Thur .	14 Mar (73) .	30	17	21	•	2 Mon.		r. (84) .	25 Ma
4165	124-6509	2 Mon	3 Mar (62)	0	30	3	•	4 Wed.	•	r. (85) .	26 Ma
4166	159-2905	1 Sun .	21 Mar (81) .	30	42	9	•	5 Thur.	•	r. (85) .	25 Ma
4167	34 9739	5 Thur .	10 Mar. (69)	0	55	15	•	6 Fm	•	r (84).	25 Ma
4168	249 2892	3 Tues	28 Feb (59) .	30	7	22	•	0 Set.	٠	r. (84) .	25 Ma
4169	283 9288	2 Mon	19 Mar (78) .	0	20	4	•	2 Mon.	٠	r (85)	26 Ma
4170	159 6122	6 Fri	7 Mar (67)	30	32	10		3 Tues.	•	z (85).	25 Ma

§ As a mean tithi Chaitra Sukla I was expunged. The civil day corresponding to it, s ε , the first day of the lumi-solar year was as given in cols 19, 20

TABLE

				CONCU	RRENT Y	EAR.		
Kalı	Saka.	Chattrādı Vikrama	Meshadı solar year in Bengal	Kollam	A D	JOVIAN S Southern system	Northern system	Mean Intercalated (adhika) lunar month
1	2	3	3a	4	5	6	7	8a
4171 4172 4173	992 993 994	1127 1128 1129	478 477	244 45 245 46	1069 70 1070 71	43 Saumya 44 Sādhārana	45 Virödhakçıt 46 Paridhavin	1 Chastra .
4174	995	1130	478 479	246 47 247 48	1071-72 *1072-73	45 Virödhakrit 46 Paridhävin	47 Pramādin	10 Pausha
4175	990	1131	480	248 49	1073 74	47 Pramādin	48 Ānanda 49 Rākshasa	
4176	997	1132	481	249 50	1074 75	48 Ananda	50 Anala	6 Bhādrapada
4177	998	1133	482	250 51	1075 76	49 Rākshasa	51 Pingala †	
4178	808	1134	483	251-52	*1076 77	50 Annla	53 Siddhärthin	
4179	1000	1135	484	252 53	1077 78	51 Pingala	54 Raudra	3 Jyčshtha .
4180	1001	1136	485	253 54	1078 79	52 Kālayukta	55 Durmats	
4181	1002	1137	488	254 55	1079 80	53 Siddhärthin	56 Dundubli	11 Mägha
4182	1003	1138	487	255 56	*1080 81	54 Raudra	57 Rudhırödgärın	
4183	1004	1139	488	256 57	1081 82	55 Durmatı	58 Raktāksha .	
4184 4185	1005	1140	489	257 58	1082 83	56 Dundubhı	59 Krödhana	8 Kārttika .
4186	1008	1141	490	258 59	1083 84	57 Rudhırödgärin	60 Kshaya	1
4187	1007	1142	491	259 60	*1084 85	58 Raktāksha	1 Prabhava	
4188	1009	1144	492	260 61	1095 86	59 Krōdhana	2 Vibhava	4 Ashādha
4189	1010	1145	493	261 62	1086 87	60 Kahaya	3 Sukla .	
4190	1011	1146	494 495	262 63 263 64	1087 88	1 Prabhaya	4 Pramõda	·
4191	1012	1147	496	264 65	*1088 89 1089 90	2 Vibhava	5 Prajāpati	1 Chartra .
4192	1013	1148	497	265 66	1090 91	3 Sukla	6 Angiras	
4193	1014	1149	498	266 67	1091-92	4 Pramēda 5 Prajāpati	7 Śrimukha .	9 Märgasira .
4194	1015	1150	499	267 68	*1092 93	6 Angiras	8 Bhāva	- 3
4195	1018	1151	500	268 69	1093 94	7 Srimukha	9 Yuvan 10 Dhātrı . .	6 Bhādrapada

^{† 52} Kālayukta was suppressed in the north.

I.XXVI-Contd

1 Arya Siddhanta, mean system.

	a Biddheata, n	LAIJ		<u> </u>					
			ENT OF THE	CEMI	MEN	O	C		
Kalı year.			Mean Luni-solar civil day on which			OLAB YEAR.	ean s	Mean	
	a (here=t, the index of the tithi)	Week-day.	Day and month, AD.	ēsha-	Time ean Mé amkrái		Week-day	th,	Day and month,
1	23	20	19		17	1	14		13
4171	35 2955	3 Tues .	24 Feb (55) .	S. 0	M. 3	1	4 Wed.		25 Mar (84) .
4172	69 9351	2 Mon	15 Mar. (74)	30	2		5 Thur		25 Mar (84) .
4173	284 2504	0 Sat .	5 Mar (64)	0	5 10		0 Sat .		26 Mar (85)
4174	318 8901	6 Fr1	23 Mar. (83) .	30	22	1	1 Sun .		25 Mar (85) .
4175	194 5734	3 Tues .	12 Mar (71) .	0	7 35		2 Mon .		25 Mar (84) .
4176	70 2568	0 Sat .	1 Mar. (60) .	30	3 47	1	3 Tues .	•	25 Mar (84).
4177	104 8964	6 Fr	20 Mar (79) .	0	3 0		5 Thur		26 Mar (85).
4178	319 2116	4 Wed .	9 Mar (69)	30	2 12		6 Fn .		25 Mar. (85) .
4179	194 8950	1 Sun	26 Feb (57) .	0	3 25		0 Sat .	•	25 Mar. (84) .
4180	229 5347	O Sat .	17 Mar (76) .	30	0 37		2 Mon	•	26 Mar. (85) .
4181	105 2180	4 Wed .	6 Mar. (65) .	0	6 50		3 Tues	•	26 Mar. (85) .
4182	139 8576	3 Tues	24 Mar. (84) .	30	3 2		4 Wed	•	25 Mar. (85) .
4183	15 5410	0 Sat	13 Mar (72) .	0	0 15		5 Thur	•	25 Mar. (84) .
4184	229 8563	5 Thur	3 Mar (62) .	30	1 27		O Sat .	•	26 Mar. (85) .
4185	264 4959	4 W.ed	22 Mar (81) .	0	7 40	1	1 Sun	•	26 Mar. (85) .
4186	140 1793	1 Sun	10 Mar. (70) .	30	3 52		2 Mon	•	25 Mar (85).
4187	15 8627	5 Thur	27 Feb (58) .	0	0 5		3 Tues	•	25 Mar. (84) .
4188	50 5023	4 Wed	18 Mar (77) .	30	2 17		5 Thur	•	26 Mar. (85) .
4189	264 8176	2 Mon	8 Mar (67) .	0	8 30		6 Fm .	•	26 Mar (85).
4190	140 5009	6 Fm .	25 Feb (56) .	30	4 42		0 Sat.	•	25 Mar (85).
4191	175 1405	5 Thur	15 Mar (74) .		0 55	1	1 Sun.	•	25 Mar. (84) .
4192	50 8239	2 Mon.	4 Mar (63) .		3 7		3 Tues .	•	26 Mar. (85) .
4193	85 4636	1 Sun	23 Mar. (82)		9 20	1	4 Wed .	•	26 Mar. (85) .
4194 4145	299 7788	6 Fri.	12 Mar (72)		5 32	1	5 Thur .		25 Mar. (85) .
#100	175-4622	3 Tues	1 Mar (60) .	0	1 45	1	6 Fm	٠	25 Mar. (84) .

TABLE

				CONCUR	RENT YE	AR		
		Vikrama.	lar year			JOVIAN SA	Lyatsaba	Mean Intercalated (adhika) lunar
Kali.	Saka.	Chatrādı V	Mëshëdi solar xa Bengal.	Kollam	A D.	Southern system.	Northern system	month
1	2	3	3a	4	5	6	7	8a
4196	1017	1152	501	269-70	1094-95	8 Bhāva	11 Iévara	
4197	1018	1153	502	270-71	1095-96	9 Yuvan .	12 Bahudhānya .	•
4198	1019	1154	503	271-72	*1096-97	10 Dhātri	13 Pramathin	0 7-7-141-4
4199	1020	1165	504	272-73	1097-98	11 Isvara		3 Jyështha † .
4200	1021	1156	505	273-74	1098-99		14 Vikrama .	11 700.1
4201	1022	1157	506	274-75	1099-00	12 Bahudhānya 13 Pramāthın	15 Vrisha	11 Mägha
4202	1023	1158	507	275 76	*1100-01	•	16 Chitrabhānu .	•••
4203	1024	1159	508	276-77	1101-02	14 Vikrama	17 Subhānu .	
4204	1025	1160	509	277-78	1101-02	15 Vrisha	18 Tārana	8 Kārttika
4205	1026	1161	510	278 79	•	16 Chitrabhānu .	19 Pārthiva .	* •
4206	1027	1162	511	279-80	1103-04	17 Subhānu .	20 Vyaya	••
4207	1028	1163	512	280 81	*1104-05	18 Tāraņa	21 Sarvajit .	4 Āshādha
4208	1029	1164	513	281-82	1105 06	19 Pārthiva .	22 Sarvadhāmn .	••
4209	1030	1165	514	282-83	1106 07	20 Vyaya .	23 Virōdhin .	• •
4210	1031	1166	515	283-84	1107-08	21 Sarvajit .	24 Vikrita .	1 Chartra
4211	1032	1167	516	284 85	*1108-09	22 Sarvadhārın .	25 Khara	••
4212	1033	1168	1		1109-10	23 Virōdhin .	26 Nandana .	9 Mārgašīra
4213	1034	1	}	1	1110-11	24 Vikrita	27 Vijaya .	
4214	1035	1	1		*1112 13		28 Jaya	٠
4215	1036		1	1	1113-14		29 Manmatha .	6 Bhādrapadı
4216	1037	1172			1114-15		30 Durmukha	
4217	1038	1173	522	1	1115-16	1	31 Hēmalamba	
4218	-55.	1174	523		1		32 Vilamba	2 Vaišākha
4219		1178	5 524	1	1		33 Vikārin	
423	0 104	1170	52	1	1		34 Sārvarın	11 Magha

By the "Indian Calendar" 2 Vaisākha was intercalated.

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1 Ārya Siddbānta, mean system.

cau bysicu	s Siddbānta, m	1,							
			T OF THE	MEN	NCE	ME	COV		
Kalı yesi		YEAR (MEAN H CHAITRA SI)LAB YEAR.	Iran s	Me				
	a (here=t, the index of the tithi)	Week-day.	Day and month,	sha-	me o n Mê ıkrā:	mea	Week-day	nth,	Day and mont
1	23	20	19		17		14		13
4196	210 1018	2 Mon.	20 Mar (79) .	S 30	M 57	H 3	1 Sun .	•	26 Mar (85)
4197	85 7852	6 Fn	9 Mar. (68) .	0	10	10	2 Mon .		26 Mar. (65) .
4198	300-1005	4 Wed .	27 Feb (58) .	30	22	16	3 Tues	•	25 Mar (85)
4199	9996 1082†	2 Mon.	16 Mar (75) .	0	35	22	4 Wed		25 Mar (84).
4200	210-4235	0 Sat	6 Mar (65) .	30	47	4	6 Fri	•	26 Mar (85).
4201	245 0630	6 Fm	25 Mar (84) .	0	0	11	0 Sat	•	26 Mar (85)
4202	120 7464	3 Tues	13 Mar (73) .	30	12	17	1 Sun	•	25 Mar (85)
4203	9996-4298†	0 Sat.	2 Mar (61)	0	25	23	2 Mon .		25 Mar (84)
4204	31 0694	6 Fm .	21 Mar. (80)	30	37	5	4 Wed.	•	26 Mar (85)
4205	245 3847	4 Wed .	11 Mar. (70) .	0	50	11	5 Thur	•	28 Mar. (85) .
4208	121 0681	1 Sun	28 Feb (59)	30	2	18	6 Fn	•	25 Mar (85).
4207	155-7077	0 Sat.	18 Mar (77) .	0	15	0	1 Sun	•	28 Mar (85)
4208	31-3911	4 Wed .	7 Mar (66) .	30	27	6	2 Mon	•	26 Mar. (85) .
4209	245 7063	2 Mon .	25 Feb (56)	0	40	12	3 Tues.		26 Mar. (85)
4210	280-3460	1 Sun	15 Mar. (75) .	30	52	18	4 Wed		25 Mar (85)
4211	156 0293	5 Thur	4 Mar (63)	0	5	1	6 Fra	•	26 Mar (85) .
4212	190 6690	4 Wed	23 Mar (82)	30	17	7	0 Sat	•	26 Mar. (85) .
4213	66-3524	1 Sun.	12 Mar (71)	0	30	13	I Sun		26 Mar (85) .
4214	280 6676	6 Fr	1 Mar (61) .	30	42	19	2 Mon	•	25 Mar. (85)
4215	315-3072	5 Thur.	20 Mar. (79)	0	<i>5</i> 5	1	4 Wed.		26 Mar. (85) .
4216	190 9905	2 Mon.	9 Mar. (68)	30	7	8	5 Thur.		26 Mar. (85) .
4217	66 6740	6 Fri	26 Feb. (57)	0	20	14	6 Fn	•	28 Mar. (85)
4218	101.3136	5 Thur.	16 Mar. (76)	30	32	20	0 Sat		25 Mar (85) .
4219	315 6288	3 Tues.	6 Mar (65) .	0	45	2	2 Mon.		26 Mar. (85)
4220	11 6365	1 Sun.	24 Mar (83) .	30	57	8	3 Tues		26 Mar. (85) .

† As a mean tithi Chartra Sukla I was expunged. The civil day corresponding to it, i.e., the first day of the lum solar year was as given in cols. 19, 20.

				CONCU	RRENT YE	AR.		
		ашв	year			Jovian Sa	mvatsara	Mean Intercalated (adhika) lunar
Kalı	Saka	Chatrādı Vıkrama	Meshidi solar ın Bengal	Kollam	AD	Southern system	Northern system.	month
1	2	3	3a	4	5	6	7	8a
4221	1042	1177	526	1	1	33 Vikārin	36 Subhaknt .	 7 Āšvīns
4222	1043	1	1	1	}	34 Sārvarīn .	38 Krödhin .	
4223	1044	1	1	}	1	35 Plava	39 Visvāvasu	
4224	1045	1	}		1	36 Subhakrit .	40 Parābhava	4 Āshādha .
4225	1046		1	1			41 Playanga	
,4226	104	1	}	1	1	38 Krōdhin .	42 Kilaka	12 Phälguna
4227 4228	104	1	1		1	40 Parābhava	43 Saumya	
4228	102	}		·	1		44 Sādhāraņa	
4230	1		1		i		45 Virôdhakrit	9 Mārgašīra
4231	- 1			`\	1		46 Paridhāvin	
423	2 10	53 11	88 5	37 305	06 1130 31	44 Sādhārana	47 Pramādin	.1
423	3 10	54 11	89 5	38 306	07 1131 3	45 Virödhakrit	48 Ananda	6 Bhadrapada
423	4 10	55 11	90 5	39 307-	08 *1132 3	46 Paridhāvin	49 Rākshasa	
423	5 10	56 11	.91 6	308	09 1133 3	4 47 Pramādin	50 Anala .	
423	16 1	057 1	192	541 309	10 1134 3	5 48 Ananda	. 51 Pingala	. 2 Varšākha
42	1	1	1	542 310	1	l l	. 52 Kālayukta	
42	- }	1	1	543 311	1		. 53 Siddhärthin	. 11 Māgha .
	1	- 1	. 1	1	1137-	1	. 54 Raudra	
	į.	1	1197	1	1-14 1138 : 1-15 1139-		į	7 Āśvina
	- 1	1	1198		5-16 +1140		57 Rudhırödgär	
4	1	1	1199	1	6-17 1141.		. 58 Raktāksha	
4	244	1065	1200		7-18 1142	Y	. 59 Krōdhana	. 4 Āshādha
4	245	1066	1201	550 3	8-19 1143	-44 57 Rudhırödgâ	nn 60 Kshaya	

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1 Ārya Siddbānta, mean system.

	(COMMENCEM	ENT OF THE			1
Mean	BOLAR YEAR.		MPAN LUNI SOLAR CIVIL DAY ON WHIC			Kalı year
Day and month, A D	Week day	Time of mean Misha- samkranti	Day and month, A.D.	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
26 Mar. (85)	4 Wed .	H M. S	14 Mar (73)	6 Fm .	225 9518	4221
25 Mar. (85)	5 Thur.	21 22 30	2 Mar. (62)	3 Tues	101 6352	4222
26 Mar. (85)	0 Sat	3 35 0	21 Mar (80)	2 Mon	136 2748	4223
26 Mar (85)	1 Sun	9 47 30	10 Mar (69)	6 Fri	11 9582	4224
26 Mar (85)	2 Mon	16 0 0	28 Feb (59)	4 Wed	220 2735	4225
25 Mar (85)	3 Tues .	22 12 30	18 Mar (78)	3 Tues.	260 9131	4226
26 Mar (85)	5 Thur	4 25 0	7 Mar. (66)	0 Sat .	136 5965	4227
26 Mar (85) .	6 Fn	10 37 30	26 Mar (85)	6 Fri	171 2360	4228
26 Mar (85)	0 Sat .	16 50 0	15 Mar (74) .	3 Tues	46 9195	4229
25 Mar (85)	1 Sun .	23 2 30	4 Mar (64)	1 Sun .	261 2348	4230
26 Mar. (85)	3 Tues .	5 15 0	23 Mar (82)	0 Sat	205 8744	4231
26 Mar. (85)	4 Wed.	11 27 30	12 Mar (71)	4 Wed .	171 5578	4232
26 Mar (85)	5 Thur.	17 40 0	1 Mar (60) .	1 Sun	47 2411	4233
25 Mar. (85) .	6 Frı .	23 52 30	19 Mar (79) .	0 Sat	81 8807	4234
26 Mar. (85) .	1 Sun	8 5 0	9 Mar (09)	5 Thur	296 1960	4235
26 Mar (85)	2 Mon .	12 17 30	26 Feb (57) .	2 Mon	171 8794	4236
26 Mar (85)	3 Tues .	18 30 0	17 Mar (76) .	1 Sun	206 5190	4237
26 Mar (86) .	5 Thur	0 42 30	5 Mar (65)	5 Thur	82 2024	4238
26 Mar. (85) .	6 Fri .	6 55 0	24 Mar (83)	4 Wed.	116 8420	4239
26 Mar (85) .	0 Sat .	13 7 30		2 Mon	331 1573	4240
26 Mar (85) .	1 Sun .	19 20 0		Fri.	206 8407	4241
26 Mar (86) .	3 Tues	i i		Thur .	241 4803	4242 4243
26 Mar (85)	4 Wed.	1		Mon .	117 1637	4243 424 4
26 Mar. (85)	5 Thur .	1		Sat .	331 4790 27 4867	¢245
26 Mar. (85)	6 Fra	20 10 0	18 Mar (77) . 5	Thur .		

TABLE

				CONCUR	RENT YE	AR		
		krams	ar year			Joyjan Sa	MVATSARA	Mean Intercalated
Kalı	Saka	Chatradı Vikrams	Mëshëdi solar in Bengal	Kollam	AD	Southern system	Northern system.	(adhika) lunar month
1	2	3	3a	4	5	6	7	Fa
4246	1067	1202	551	319-20	*1144 45	58 Raktāksha	l Prabhava .	12 Phälguna
4247	1068	1203	552	320 21	1145 46	59 Krōdhana	2 Vibhava	
4248	1069	1204	553	321-22	1146 47	60 Kshaya	3 Sukla	
4249	1070	1205	554	322 23	1147-48	1 Prabhava	4 Pramēda	9 Mõrgasira
4250	1071	1206	8 55	323-24	*1148 49	2 Vibhava	5 Prajāpatı .	<u> </u>
4251	1072	1207	556	324 25	1149 50	3 Sukla	6 Anguras	
4252	1073	1208	557	325 26	1150 51	4 Pramōda	7-Srīmukha	5 Srāvaņa
4253	1074	1209	558	326 27	1151-52	5 Prajāpatı	8 Bhāva .	1
4254	1075	1210	559	327-28	*1152 53	6 Angiras	9 Yuvan .	
4255	1076	1211	-560	328 29	1153 54	7 Srīmukha	10 Dhātrı .	2 Varšākha
4256	1077	1212	561	329 30	1154 55	8 Bhāva	11 Iśvara .	
4257	1078	1213	562	330-31	1155 56	9 Yuvan	12 Bahudhānya	10 Pausha
4258	1079	1214	563	331-32	*1156 57	10 Dhātrı .	13 Pramāthin .	
4259	1080	1215	564	332-33	1157 58	II Iśvara .	14 Vikrama .	1 .
4280	1081	1216	565	333 34	1158-59	12 Bahudhānya	15 Vrishs	7 Āsvina
4261 4262	1082	1217	566	834-35	1159 60	13 Pramäthin .	16 Chitrabhānu	
4262	1083	1218	567	335 36	*1160 61	14 Vikrama	17 Subhānu*	
4284	1084	1219	568	336 37	1161-62	15 Vrisha .	19 Pārthiva	3 Jyështha
4285	1088	1220	569	337-38	1162-63	16 Chitrabhānu	20 Vyaya .	
4288	1087	1221	570	838-39	1163 64	17 Subhānu	21 Sarvajit	12 Phälguna
4287	1088	1223	1	389-40	*1164-65	18 Tārana .	22 Sarvadhärın	
4268	1069	1223	1		1165 66	19 Pārthiva	23 Virödhin	1
4289	1090	1	1	1	1166-67	20 Vyaya	24 Vikrita .	8 Kärttika
4270	1	1 -,	1	1		21 Servapit	25 Khara .	
	1	1	010	343-44	*1168-69	22 Sarvadhārm .	26 Nandana	1

^{* 18} Tarana was suppressed in the north.

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1 Arya Siddhanta, mean system.

			ENT OF THE	œM)	MEN	COL	C	
) Kali year	SUNRISE OF UKLA 1 ENDS)	year (nean on Chaitra Su	Mean Luni-solar civil day on whic				OLAR YEAR.	Mean s
t.,	a (here=t, the index of the tith)	Week-day.	Day and month, A.D	sha-	lime an Më mkra	m	Week-doy.	Day and month, A.D.
1	23	20	19		17	-	14	13
4248	241 8019	3 Tues	7 Mar (67) .	S 30	M 22	E	1 Sun	26 Mar (86) .
4247	276 4415	2 Mon .	26 Mar. (85) .	0	35	1	2 Mon .	26 Mar (85)
4248	152 1249	6 Fri .	15 Mar (74) .	30	47	1	3 Tues .	26 Mar (85) .
424P	27 8084	3 Tues .	4 Mar (63)	0	0	2	4 Wed .	26 Mar (85)
4250	62-4479	2 Mon	22 Mar (82) .	30	12		6 Fm .	26 Mar. (86) .
4251	276 7631	0 Sat	12 Mar (71)	0	25		O Sat .	26 Mar (85) .
4252	152•4465	4 Wed .	1 Mar (60)	30	37	1	1 Sun .	26 Mar. (85) .
4253	187 0861	3 Tues	20 Mar (79)	0	50	2	2 Mon	26 Mar (85) .
4254	62 7695	0 Sat .	8 Mar. (68) .	30	2		4 Wed .	26 Mar (86) .
4255	277 0848	5 Thur	26 Feb (57) .	0	15	1	5 Thur	26 Mar (85) .
4258	311 7245	4 Wed .	17 Mar (76)	30	3 27]]	6 Fr1.	26 Mar (85)
4257	187 4078	l Sun .	6 Mar (65) .	0	40	2	0 Sat .	26 Mar (85) .
4258	222-0474	O Sat .	24 Mar. (84)	30	52		2 Mon	26 Mar (86) .
4259	98 1308	4 Wed	13 Mar (72)	0	5	1	3 Tues .	26 Mar (85).
4260	312 0461	2 Mon.	3 Mar (62)	30	7 17	1	4 Wed	26 Mar (85)
4261	8 0538	0 Sat .	21 Mar. (80)	0	30	2	5 Thur	26 Mar (85).
4262	222 3691	5 Thur.	10 Mar (70) .	30	5 42		0 Sat	26 Mar (88)
4263	98 4525	2 Mon	27 Feb (58) .	0	l 55] :	1 Sun	26 Mar. (85)
4284	132 6822	1 Sun	18 Mar (77) .	30	3 7	1	2 Mon	26 Mar. (85)
4265	8 3755	5 Thur	7 Mar (66) .	0	20		4 Wed .	27 Mar. (86)
4266	43 0151	4 Wed.	25 Mar (85) .	30	8 32		5 Thur .	26 Mar. (86)
4267	257 3504	2 Mon	15 Mar (74) .	0	2 45		6 Fr	26 Mar (85)
4288	133 0138	6 Fri .	4 Mar. (63)	30	8 57		0 Sat .	26 Mar (85).
4269	167 6434	5 Thur .	23 Mar (82) .	0	1 10		2 Mon .	27 Mar. (86)
4270	43 3368	2 Mon	11 Mar. (71) .	30	7 22	1	3 Tues	26 Mar. (86)

					CON	CURRI	ENT YEA	R.			
			rama	r year				Joyian S.	A M'	YATSARA	Mean Intercalated (adhika) lunar
Kalı	Sak	a	Chatrādı Vıkrama	Meshadı solar ın Bengal	Koll	am	AD	Southern system		Northern system	month
1	2		3	3a	1	1	5	6		7	8a
4271	10	92	1227	576	34	4 45	1169 70	23 Vırödhın		27 Vijaya	5 Śrāvaņa .
4272	10	93	1228	577	34	5 46	1170 71	24 Vikrita	٠	28 Jaya	
4273	10	94	1229	578	34	6 47	1171-72	25 Khara	$\cdot \mid$	29 Manmatha .	•••
4274	10	095	1230	579	34	7 48	*1172-73	26 Nandana		30 Durmukha	2 Variākbs .
4275	10	096	1231	580	34	18 49	1173 74	27 Vijaya		31 Hēmalamba	
4278	1	097	1232	58	1 3	19 50	1174-75	28 Jaya	•	32 Vilamba	10 Pausha .
4277	1	.098	1233	58	2 3	50 51	1175-76	29 Manmatha	•	33 Vikārin	• 1
4278		1099	1234	58	3 3	51-52	*1176 77	30 Durmukha	•	34 Sārvarin	
4279		1100	1238	1	- -	52 53	1177-78	31 Hēmalamba	•	35 Plava .	. 7 Āsvina .
428	1	1101	1230			53 54	1178 79	32 Vilamba	•		• • • • • • • • • • • • • • • • • • • •
428 428		1102 1103	1		1	354-55	1179 80	33 Vikārin		37 Söbhana	•
428		1103		- -		355 56 356 57	*1180 81 1181-82	34 Sārvarın	•	38 Krōdhin	. 3 Jyështha
42	``\	110			-	357-58	1181-82	100	•	39 Viśvāvasu	
42		110	\	_ -		358-59	1182 83			40 Parābhava 41 Plavanga	. 12 Phālguna
42	86	110	7 12		591	359 60	*1184 85			42 Kilaka .	
42	287	110	8 12	43	592	360 61	1185 86		•	43 Saumya	8 Kārttika
45	288	110	9 12	- }	593	361 62	1186 8			44 Sādhārana	Jacovina
4	289	m	10 12	245	594	362 63	1	1		45 77 - 27 1 4	
4	290	111	11 15	246	595	363 64	*1188-8	9 42 Kilaka		46 Pandhāvin	5 Śrāvana
	1291	1		247	598	364 65	1189 9	0 43 Saumya		47 Pramādin	
	1292	1	J	248	597	365 66	1	1 44 Sādhārana		48 Ananda	
	4293	- 1	- 1	249	598	366 67	1191-9	2 45 Virödhakri	t	40 Rākshasa	. 1 Chaitra
	4294 4295		1	1250	599	367 68	1	3 46 Paridhāvin	l.	50 Anala	
=	+400	1,	116	1251	600	368 69	1193 9	47 Pramādin		. 51 Pingala	. 10 Pausha

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1 Arya Siddhanta, mean system.

	===		==				===	==	===	==			T AI	ya Sidahanti	, mean systen
			C	DMM	ENC	CEM!	ent (Œ	THE						
M	EAN	SOLAR YEA	R.				M	[EA]	n Luni Day o	-so: N W	LA HI	R YEAR CH CHAIT	(meai ra Si	n sunrise o JRLA 1 Ends)	r Kalı year
Day and mor	ith,	Week da	y.	m	Tım can l ımkı	e of Mēsh anti		y a	nd m	ontl	Ь,	Week	day	a (here= the index of the tith	,
13		14			17	7	 		19		_	20)	23	
26 Mer (85)	•	4 Wed	•	H 13			1	Mai	r (GO)		•	0 Sat.		257-6521	4271
26 Mar (85)		5 Thur	•	19	47	30	20	Mar	r (79)			6 Fm		292 2917	4272
27 Mar. (86)		0 Sat		2	0	0	1		(68)			3 Tues		167 9751	4273
26 Mar. (86) .	•	1 Sun.	•	8	12	30	1		. (57)			0 Sat		43 6684	4274
26 Mar. (85)	•	2 Mon		14	25	0	16 7	Mar	, (75)			6 Fr.		78 2981	4275
26 Mar (85).	•	3 Tues		20	37	30	ł		(65)			4 Wed.		292 6133	4276
27 Mar (86).		5 Thur.		2	50	0	t		(84)			3 Tues.		327 2528	4277
26 Mar (86).		6 Fm.		9	2	30	ł		(73)		.	0 Sat		202 9372	4278
26 Mar (85)		0 Sat		15	15	0	ł		(61)			4 Wed.		78 6196	4279
26 Mar (85).		1 Sun		21	27	30	ł		(80)	•		3 Tues.		113 2593	4280
27 Mar (86)	•	3 Tues		3	40	0	ł		(70)			1 Sun.		÷ 327 5745	4281
26 Mar. (86)	•	4 Wed.		9	52	30	28 F				1	5 Thur.		203 2579	4282
26 Mar (85)	•	5 Thur.		16	5	0	18 M				1	4 Wed.		237 8975	4283
20 Mar (85)		6 Fr1.		22	17	30	7 M		(66)			1 Sun.		113 5809	4284
27 Mar. (86) .	•	1 Sun,		4	30	0	26 M	lar	(85)			0 Sat.		148 2205	4285
26 Mar. (86) .	•	2 Mon.		10	42	30	14 M	ar	(74)			4 Wed.	.	23 9039	4286
28 Mar. (85)	•	3 Tues	.	16	55	0	4 M	ar	(63)			2 Mon.		238 2192	4287
26 Mar (85).		4 Wed.	.]	23	7	30	23 M	ar	(82)			1 Sun.		272 8588	4288
27 Mar (86).	.	6 Fn.	- 1	5	20	0	12 M	ar	(71)		١,	5 Thur.		148 5422	4253
26 Mar (86).		0 Sat	.	11	32	30	29 F	b	(60)		:	2 Mon.		24 2256	4290
26 Mar (85).		1 Sun.	.	17	45	0	19 M	ar	(78)	•	1	1 Sun.	1	58 8452	4201
26 Mar. (85) .		2 Mon	٠	23	67	30	9 M	at 1	(68)	•	1	6 Fri		273 1805	4200
27 Mar (86)	. }	4, Wed.	.]	6	10	0	26 Fe	:b ((57)	•	2	3 Tues		148 8038	4293
20 Mar. (86) .	• }	5 Thur	}	12	22	30	16 M	ur ((76)	•	2	2 Mon		183 5035	4204
26 Mar. (85)	•	6 Fri.		18	35	0	5 M	ır ((04)	Į	Ø	Fn	1	59 1868	420%

				CONCUR	RENT YE	AR		
		ikrama.	solar year			Jovian Sa	Myatsara	Mean Intercalated (adhika) lunar
Kalı.	Saka	Chaitrādi Vikrama.	Měshādı sol ın Bengal	Kollam	A.D	Southern system	Northern system	month
1	2	3	3 <i>a</i>	4	5	6	7	8 <i>a</i>
4296	1117	1252	601	369-70	1194-95	48 Ānanda .	52 Kälayukta .	***
4297	1118	1253	602	370 71	1195 96	49 Rākshasa	53 Siddhärthin	
4298	1119	1254	603	371-72	*1196 97	50 Anala	54 Raudra	6 Bhādrapada
4299	1120	1255	604	372 73	1197-98	51 Pingala	55 Durmati	V Dustrapata
4300	1121	1256	605	373 74	1198-99	52 Kālayukta	56 Dundubhi	
4301	1122	1257	606	374-75	1199 00	53 Siddhärthin	57 Rudhırödgärin	3 Jyështha
4302	1123	1258	607	375 76	*1200 01	54 Raudra	58 Raktāksha	5 5,000,000
4303	1124	1259	608	376 77	1201-02	55 Durmati	59 Krödhana .	11 Mägha
4304	1125	1260	609	377-78	1202 03	56 Dundubhi	60 Kshaya	
4305	1126	1261	610	3 78-79	1203 04	57 Rudhirödgarin	1 Prabhava	14
4306	1127	1262	611	379 80	*1204 05	58 Raktāksha	2 Vibhaya	8 Kārttīka
4307	1128	1263	612	380 81	1205-06	59 Krödhana	3 Sukla	
4308	1129	1264	613	381-82	1206 07	60 Kshaya	4 Pramoda .	
4309	1130	1265	614	382-83	1207-08	1 Prabhava	5 Prajāpatı .	5 Srāvaņa
4310	1131	1266	615	383 84	*1208 09	2 Vibhava .	6 Angiras	O Distans
4311	1132	1267	616	384 85	1209-10	3 Sukla	7 Srimukha	
4312		1268	617	885 86	1210 11	4 Pramoda .	8 Bhāva	1 Chaitra
4313		1269	618	886 87	1211-12	5 Prajāpati .		***
4314 4315			619	387-88	*1212-13	6 Angiras .	10 Dhātrı	10 Pausha
4316		1	1	}	1216-14	7 Śrimukha .	11 Iśvara	
4317		1		}	1214-15	8 Bhāva	12 Bahudhānya	
431	1		1		1215-16	9 Yuvan	13 Pramāthın	6 Bhādrapada
431	1			1	*1216-17	10 Dhātri .	14 Vikrama	
432		1 7			1217-18		15 Vrisha	
====		1	625	393 94	1218 19	12 Bahudhānya	16 Chitrabhānu	3 Jyeshtha

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1 Arya Siddhanta, mean system.

Ī			T OF THE	ENCEME	MMT	CO	
			,		1111111		
Kalı year			Mean Luni-solab civil day on whic			SOLAR YEAR.	Mean s
	a (here=i, the index of the tithi)	Week-day	Day and month, A D	Fime of an Misha- mkränti	met	Week day	Day and month, A D
I	23	20	19	17		14	13
4296	93 8264	5 Thur.	24 Mar (83) .		H	1 Sun.	27 Mar. (86)
4297	308 1417	3 Tues .	14 Mar (73)	0 0	7	2 Mon .	27 Mar (86)
4298	183 8251	0 Sat .	2 Mar. (62)		13	3 Tues.	26 Mar (86)
4299	218 4647	6 Fri.	21 Mar (80)		19	4 Wed.	26 Mar. (85)
4300	94 1481	3 Tues	10 Mar (69)	37 3)	1	6 Fri	27 Mar. (86)
4301	308 4634	1 Sun	28 Feb (59)	<i>5</i> 0 0	7	0 Sat	27 Mar (86) .
4302	4 4711	6 Fr	17 Mar (77)	2 30	14	1 Sun	26 Mar. (86)
4303	218 7864	4 Wed.	7 Mar (66)	15 0	20	2 Mon	26 Mar (85)
4304	253 4359	3 Tues	26 Mar (85)	27 30	2	4 Wed	27 Mar. (86)
4305	129 1004	0 Sat .	15 Mar (74)	40 0	8	5 Thur .	27 Mar (86)
4306	4 7927	4 Wed	8 Mar (63) .	52 30	14	6 Fm	26 Mar (86)
4307	39 4324	3 Tues .	22 Mar (81)	5 0	21	0 Sat .	26 Mar (85)
4308	253 7477	1 Sun .	12 Mar (71) .	17 30	3	2 Mon	27 Mar (86)
4309	129 4311	5 Thur .	1 Mar (60)	30 0	9	3 Tues	27 Mar (86) .
4310	164 0707	4 Wed .	10 Mar. (79)	42 30	15	4 Wed .	26 Mar (86) .
4311	39 7540	1 Sun	6 Mar (67)	55 0	21	5 Thur .	26 Mar (85)
4312	254 0693	6 Fm	26 Feb (57) .	7 30	4	0 Sat	27 Mar (86) .
4312	288-7089	5 Thur .	17 Mar (76) .	20 0	10	1 Sun	27 Mar (86)
4314	164 3923	2 Men	5 Mar (65) .	32 30	16	2 Mon	26 Mar (86)
4315	199 0319	1 Sun	24 Mar (63) .	45 0	'22	3 Tues	26 Mar (85)
4316	74 7152	5 Thur	13 Mar (72)	57 80	4	5 Thur	27 Mar (86)
4317	289 0306	3 Tues	3 Mar (62)	10 0	11	6 Fra	27 Mar (86)
4318	323 6702	2 Mon	21 Mar (81)	22 30	17	O Sat	26 Mar (86) .
4319	199 3535	6 Frı	10 Mar (69)	35 0	23	Î Sun	26 Mar (85)
4320	75 0369	3 Tues	27 Feb (58) .	47 30	5	3 Tues	27 Mar. (86)

				CONCUR	RENT YE	AR.				
		Vikrama	r year			Jovian S	SAR	ivatbara.	1	Mean Intercalated
Kalı	Saka	Chastrada Vakra Meshada solar an Bengal		Kollam	A D.	Southern system.		Northern system.		(adhika) lunar month
1	2	3	3a	4	5	6		7		8a
4321	1142	1277	626	394 95	1219 20	13 Pramāthin		17 Subhānu		••
4322	1143	1278	627	395 96	*1220 21	14 Vikrama	.	18 Tāraņa .	ı	11 Māgha .
4323	1144	1279	628	396 97	1221 22	15 Vrisha		10 Pārthva	ı	•
4324	1145	1280	629	297-98	1222 23	16 Chitrabhānu	Ì	20 Vyaya .	j	
4325	1146	1281	630	398 99	1223 24	17 Subhānu		21 Sarvajit		8 Kārttika
4326	1147	1282	631	399 00	*1224-25	18 Tārana .		22 Sarvadhänn	\cdot	••
4327	1148	1283	632	400 01	1225-26	19 Pärthiva	•	23 Virodhin	\cdot	••
4328	1149	1284	633	401 02	1226 27	20 Vyaya .		24 Vikrita .	\cdot	4 Āshādha .
4329	1150	1285	634	402 03	1227-28	21 Sarvajit	•	25 Khara .	1	•
4330	1151	1286	635	403 04	*1228 29	22 Sarvadhārın	•	26 Nandana	1	•
≠ 331	1152	1287	636	404 05	1229 30	23 Virodhin	•	27 Vijaya .		1 Chaitra
4332	1153	1288	637	405 08	1230 31	24 Vikrita .	•	28 Jaya .		
4333	1154		638	406-07	1231-32	25 Khara .	•	29 Manmatha	1	9 Mārgašura
4334	1	} ====	639	407-08	*1232-33	26 Nandana	•	30 Durmukha	\cdot	•
4335 4336		}	640	1 -00	1233-34	27 Vijaya .	٠	31 Hēmalamba	\cdot	•
4337			1		1234-35	28 Jaya	•	32 Vilamba	\cdot	6 Bhādrapada
4338			1	}	1235 36	1	•	33 Vikārin		•
4339		1			1	1	•	34 Särvann	•	0.77.11-1-
4340				1	i	i	•	35 Plava . 36 Subhakrit		2 Vaišākha
434		1	}		į.		•	37 Söbhana		 11 3 5aka
434	2 116	}	1				•	38 Krödhin		11 Māgha
434	3 116	4 1299	1				•	39 Viśvāvasu		••
434	4 115	5 130	0 64		1	1		40 Parābhava		7 Asvina
434	15 116	8 130	1 65	0 418-19	1	1		41 Plavanga		• 220 A 11 12

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1 Ärya Siddhänta, mean system .

COMMENCEMENT OF THE													
MEAN LUNI BOLAR YEAR (MEAN BUNRISE OF CIVIL DAY ON WHICH CHAITRA SUKLA 1 ENDS)	Kalı year												
th, Week day Time of mean Misha-samkranti Day and month, A D. Week-day of the tithi)													
14 17 19 20 23	1												
H M B													
. 4 Wed . 12 0 0 18 Mar (77) . 2 Mon . 109 6765	4321												
5 Thur 18 12 30 7 Mar (67) 0 Sat . 323 9918	4322												
0 Sat . 0 25 0 25 Mar (84) . 5 Thur 19-9905	4323												
1 Sun . 6 37 30 15 Mar (74) . 3 Tues 234 3148	4324												
. 2 Mon . 12 50 0 4 Mar (63) . 0 Sat . 100 9982	4325												
3 Tues 19 2 30 22 Mar (82) . 6 Fr 144 6378	4326												
5 Thur . 1 15 0 11 Mar (70) . 3 Tues . 20 3212	4327												
6 Frn . 7 27 30 1 Mar. (60) 1 Sun 234 6365	4328												
0 Sat 13 40 0 20 Mar (79) . 0 Sat. 269 2761	4329												
. 1 Sun , 19 52 30 8 Mar (68) 4 Wed 144 9594	4330												
3 Tues . 2 5 0 25 Feb (56) . 1 Sun 20 6428	4331												
. 4 Wed . 8 17 30 16 Mar (75) . 0 Sat . 55 2824	4332												
. 5 Thur . 14 30 0 6 Mar (65) . 5 Thur . 269 5977	4333												
. 6 Fri 20 42 30 24 Mar (84) . 4 Wed 304 2373	4334												
. 1 Sun . 2 55 0 13 Mar (72) . 1 Sun . 179 9207	4335												
. 2 Mon . 9 7 30 2 Mar (61) . 5 Thur . 55 6041	4336												
. 3 Tues 15 20 0 21 Mar (80) . 4 Wed 90 2437	4337												
. 4 Wed 21 32 30 10 Mar (70) . 2 Mon . 304-5890	4338												
. 6 Fr 3 45 0 27 Feb (58) . 6 Frl 180 2424	4339												
0 Sat. 9 57 30 18 Mar. (77) . 5 Thur 214 8820	4340												
. 1 Sun . 10 10 0 7 Mar (66) . 2 Mon 90 5654	.4341												
. 2 Mon . 22 22 30 25 Mar. (85) . 1 Sun 125 2049	4342												
. 4 Wed . 4 35 0 14 Mar. (73) 5 Thur 0 8884	4343												
. 5 Thur 10 47 30 4 Mar. (03) . 3 Tues . 215 2037	4344												
. 6 Fri 17 0 0 23 Mar (82) . 2 Mon 249 8433	4345												

						CON	CURR	ENT YEA	R			,			
			Vıkrama-	TANE						Jos	tan Sa	MY.	ATSARA		Mean Intervalated (adhika) lunar
Kali.	Sal	kor.	Chattrādi Vikr	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Mesnam sonar ın Bengal	Kolle	am.	AD		Souther system			Northern system		month
1	Ϊ	2	3	7	3à	4	1	5		6			7		8a
4346 4347		167 168	130	- }	651 652		9-20	*1244 45 1245-46		Krödhu Viśvāv			12 Kilaka • 13 Saumya†		4 Āshādhs .
4348	- }	169	1		653	42	1-22	1246 47	40	Parābb	ava .	.	45 Viredhalgi		4
4349		1170	13	05	654	42	2-23	1247-48	41	Plavan	ga		46 Parıdhävın		••
4350		117	1 13	06	65	5 42	23 24	1248 49	42	Kilaka	•	-]	47 Pramādin		1 Chartra .
4351		117	2 18	07	165	6 4	24-25	1249 50	43	Saumy	7 8.	\cdot	48 Ananda	•	• •
4352	2	117	3 1:	308	65	7 4	25 26	1250 51	44	Sádhá	rana		49 Rākshasa	•	9 Mārgašīra -
435	3	117	4 1	309	65	8 4	26-27	1251-52	1	Vırōd'	-		50 Anala	•	•
435	_	117	1	310	65	· } ·	27-28	*1252-53	-{	3 Pand		•	51 Pingala	•	
435 431		11		311	1		428 29 429 30	1253 5	1	7 Pram 8 Anan		•	52 Kālayukta 53 Siddhārth		6 Bhādrapada
43		1	1	1312 1313	1	}	428 30 430 31	1	- 1	s Anan 9 Rāks		•	54 Raudra	1111	
	58	1	1	1314	\	863	431-32			50 Anal		•	55 Durmatı	•	2 Varšākha
43	359	1	180	131	5	664	432 33	1257-	58	51 Ping	ala		56 Dundubh	u .	
4	380	1	181	131	8	665	433 3	1258	59 \	52 Kāl	yukta		57 Rudbirō	dgārın	11 Māgha
4	361	1	1182	13	17	666	434 3	5 1259	60	53 Sidd	lhärthır	a .	58 Raktāks	ha .	
	1362	- 1	1183	13	- 1	667	435-3	1	1	54 Rat	ıdra	•	59 Krödhan	na .	
	4363		1184	l	19	808	436	l	- {	55 Du			60 Kshaya	•	7 Āśvina
	4364 438	- 1	1185	l	320	689	437-	1			ndubhi		. 1 Prabhav		•
			1	3-64 4-65		dbıröde ktäksbı		2 Vibhava 3 Sukla							
	436		1188	1	323	672	1		5-66	1	odhana		4 Pramod		• 4 Āshādha
	430	88	118	9 1	1324	673	1	1	6 67	60 K			5 Prayapa		. 12 Phälguna
	43	69	119	0	1325	674	442	43 126	7 68	1 P	rabhava	ı	6 Angiras		maiputta
	43	70	112	7	1326	67/	5 442	144 *126	8 69	2 V	bhaya		7 Śrimuk		

^{† 44,} Sådhäraga, was suppressed in the north by the mean system, but 45 Virödhakrit by tir true system By the latter system the year A.D 1246-47 was called in the north, "Sådhäraga"

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1 Ārya Siddhānta, mean system.

	CO	MMENCEMEI	NT OF THE			
Mean s	SOLAR YEAR.		Mean Luni solar civii day on whic			Kalı year
Day and month, A.D.	Week day	Time of mean Misha- samkränti	Day and month, A D	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
		н м в				
26 Mar (86) .	0 Sat .	23 12 30	11 Mar (71)	6 Fri	125 5266	4346
27 Mar. (86)	2 Mon	5 25 0	28 Feb (59)	3 Tues	1 2100	4347
27 Mar (86) .	3 Tues	11 37 30	19 Mar (78)	2 Mon	35 8196	4348
27 Mar (86) .	4 Wed	17 50 0	9 Mar (68)	0 Sat .	250 1649	4349
27 Mar (87)	6 Fn.	0 2 30	26 Feb (57)	4 Wed	125 8482	4350
27 Mar. (86) .	0 Sat .	6 15 0	16 Mar (75)	3 Tues .	160 4878	4351
27 Mar (86).	1 Sun .	12 27 30	5 Mar (64)	0 Sat	36 1712	4352
27 Mar (86).	2 Mon	18 40 0	24 Mar (83)	6 Frı	70 8109	4353
27 Mar (87) .	4 Wed	0 52 30	13 Mar (73)	4 Wed .	285 1262	4354
27 Mar (86)	5 Thur.	7 5 0	2 Mar (61)	1 Sun .	160 8095	4355
27 Mar (86)	6 Fn	13 17 30	21 Mar (80)	0 Sat .	195 4491	4356
27 Mar (86)	0 Sat .	19 30 0	10 Mar (69)	4 Wed	71 1325	4357
27 Mar (87) .	2 Mon .	1 42 30	28 Feb (59) .	2 Mon	285 4478	4358
27 Mar (86)	3 Tues	7 55 0	18 Mar (77) .	1 Sun .	320 0874	4359
27 Mar (86)	4 Wed	14 7 30	7 Mar (66)	5 Thur	195 7708	4360
27 Mar (86) .	5 Thur	20 20 0	26 Mar (85)	4 Wed	230 4104	4361
27 Mar (87) .	0 Sat .	2 32 30	14 Mar (74)	1 Sun	106 0938	4362
27 Mar (86)	1 Sun	8 45 0	4 Mar (63)	6 Fri	320 4091	4363
27 Mar (86) .	2 Mon	14 57 30	22 Mar (81) .	4 Wed .	16 4168	4364
27 Mar (86) .	3 Tues	21 10 0	12 Mar (71) .	2 Mon .	230 7321	4365
27 Mar. (87)	5 Thur	3 22 30	29 Feb (60)	6 Fn	106 4155	4366
27 Mar. (86) .	6 Fn	9 35 0	19 Mar (78) .	5 Thur	141 0551	4367
27 Mar. (86)	0 Sat	15 47 30	8 Mar (67)	2 Mon .	16 7384	4368
27 Mar (86)	1 Sun .	22 0 0	27 Mar (86) .	1 Sun	51.3780	4300
27 Mar (87)	3 Tues .	4 12 30	16 Mar. (76) .	6 Frs	265 6934	4370

				CONCURI	RENT YEA	R		
		тата	ar year			Jovian S13	sarapa.	Mean Intercalated (adhika) lunar
Kalı	Saka	Chattradı Vikrama	Meshada solar ın Bengal	Kollam	AD	Southern system	Northern system	month
1	2	3	3u	4	5	G	7	8a
4371	1192	1327	676	444 45	1269 70	3 Sukla	8 Bhāva	9 Mārgasira .
4 372	1193	1328	677	445 46	1270 71	4 Pramoda	9 Yuvan .	
4 373	1194	1329	678	446 47	1271-72	5 Prajāpatı .	10 Dhātṛi .	. 1)
4 374	1195	1330	679	447 48	*1272 73	6 Augiras	11 Isvara	5 Srāvana .
4375	1196	1331	680	418 49	1273 74	7 Śrīmukha	12 Bahudhānya	•
4370	1197	1332	681	449 50	1274-75	8 Bhāva	13 Pramäthin .	
4377	1108	1333	682	450 51	1275-76	9 Yuvan .	14 Vikrama .	2 Vaišākha .
4378	1199	1334	683	451 52	*1276 77	10 Dhatr	15 Vrisha .	
4379	1200	1335	684	452 53	1277-78	11 Iśvara	16 Chitrabhānu	10 Pausha .
4380	1201	1336	685	453 54	1278-79	12 Bahudhānya	17 Subhānu .	
4381	1202	1337	686	454 55	1279 80	13 Pramāthın	18 Tāraņa .	
4382	1203	1338	687	455 56	*1280 81	14 Vikrama .	19 Pārthīva .	7 Asvina .
4383	1204	1339	688	456 57	1281 82	15 Vrisha	20 Vyaya	
4384	1	1340	089	457-58	1282 83	16 Chitrabhānu	21 Sarvajit .	
4385	}	1 - 7 -	690	458 59	1283 84	17 Subhānu .	22 Sarvadhāmn	4 Āshrīdha
4380		1	1	459 60	*1284 85	18 Tārana ,	23 Virödhin .	
4387			1	2 460 61	1285 86	19 Pārthīva .	24 Vikrita .	12 Phälguna
4388			- 1	l	1286 87	20 Vyaya	25 Khara .	
438					}	21 Sarvajit .	26 Nandana	***
439					}	22 Sarvadhārın .	27 Vijaya .	9 Märgasira
439						23 Virðdhin .	28 Jaya	
439		1			1	24 Vikrita .	20 Manmatha	
43				98 466 67 99 467 68		}	30 Durmukha	5 Srāvaņa
43		. 1			1		31 Hemalamba	
-				00 468 69	1293 94	27 Vijaya .	32 Vilamba	

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1 Arya Siddhänta, mean system.

			NT OF THE	NCEM	OMMEN	C				
Kalı yea	SUNRISE OF UKLA 1 ENDS)	YEAR (MEAN H CHAITRA SU	MEAN LUNI SOLAR CIVIL DAL ON WHIC			YEAR	SOLA	AN 8	Mea	
	a (here=t, the index of the tithi)	Week day	Day and month, A D	Mcsha-	Time mean M samkr	ek-day	M	th,	nd mont	
1	23	20	19	7	17	14	-		13	
4371	141 3767	3 Tues	5 Mar (64) .		H M	ed .	4		(86) .	27 Mar.
4372	176 0164	2 Mon	24 Mar (83)	7 30	16 37	hur .	5		(86).	27 Mar.
4373	51 6998	6 Fn	13 Mar. (72) .	0 0	22 50	ri	6	•	(86) .	27 Mar
4374	266 0150	4 Wed	2 Mar (62)	2 30	5 2	ın	1	•	(87)	27 Mar
4375	300 6546	3 Tues .	21 Mar (80)	5 0	11 15	on.	2	•	(86) .	27 Mar
4376	176 3380	0 Sat	10 Mar (69)	7 30	17 27	103	3	•	(86) .	27 Mar
4377	52 0213	4 Wed .	27 Feb (58)	0 0	23 40	'ed	4	•	(88) .	27 Mar
4378	86 6609	3 Tues	17 Mar (77)	2 30	5 52	rı .	6		(87) .	27 Mar
4379	300 9762	1 Sun	7 Mar (66)	5 0	12 5	it .	0	•	(86) .	27 Mar
4380	9996 9840*	6 Fri	25 Mar (84)	7 30	18 17	ın .	1	•	(86) .	27 Mar
4381	211 2992	4 Wcd	5 Mar (74) .	0 0	0 30	nes	3		(87) .	28 Mar
4382	86 9826	1 Sun	3 Mar (63)	2 30	6 42	'ed	4	•	(87)	27 Mar
4383	121 6222	0 Sat .	22 Mar (81)	5 0	12 55	hur, .	5	•	(86)	27 Mar
4384	9997 3056*	4 Wed	1 Mar (70)	7 30	19 7	n	6	•	. (88) .	27 Mar.
4385	211 6209	2 Mon	1 Mar (60) .	0	1 20	ın .	1	•	. (87) .	28 Mar.
4386	246 2605	1 Sun .	9 Mar (79) .	80	7 32	on	2	•	(87) .	27 Mar
4387	121 9439	5 Thur	8 Mar (67) .	5 0	13 45	iea .	3	•	(88) .	27 Mar
4388	156 5834	4 Wed	7 Mar (86) .	7 30	19 57	ed	4	•	(86) .	27 Mar.
4389	32 2669	1 Sun.	6 Mar (75)	0	2 10	ı.	6	•	. (87) .	28 Mar.
4390	246 5821	6 Fm .	5 Mar (65) .	30	8 22	it .	0	•	. (87) .	27 Mar.
4391	281 2218	5 Thur	4 Mar (83)	0	14 35	ın .	1	•	. (88) .	27 Mar.
4392	156 9051	2 Mon.	3 Mar (72) .	30	20 47	on .	2	•	. (88) .	27 Mar.
4302	32 5885	6 Fri	2 Mar (61)	0	3 0	ed	4		(87) .	28 Mar
4394	67 2281	5 Thur	0 Mar (80)	30	9 12	iur	5	•	(87) .	27 Mar
4395	281 5434	3 Tues .	0 Mar (6 9) .	0	15 25	i	6	•	(86) .	27 Mar

^{*} As a mean tithi Chaitra Sukla 1 was expunged. The civil day corresponding to it, i.e., the first day of the luni solar year was as given in cols. 19, 20.

					CONC	URRE	NT YEA	K		
			apina.	r year				Jovian Sam	VATSARA	Mean Intercalated (adlnka) lunar
Kalı	Sake	7	Chaitradi Vikrama	Möshädı solar ın Bongal	Kollar	n	AD	Southern system	Northern system	month
1	2	_	3	3a	4		5	6	7	
4396	121	7 1	352	701	469-	70	1294 95	28 Jaya	33 Vikārin -	2 Vaišākha
4397	121	`\	353	702	470	71	1295-96	29 Manmatha	34 Sārvann	
4398	12		1354	703	471	72	1296 97	30 Durmukha	35 Plava	10 Pausha .
4309	12	20	1355	704	472	73	1297-98	31 Hēmalamba	36 Subhakrit .	
4400	12	21	1356	705	478	74	1298 99	32 Vilamba .	37 Sõbhana	
4401	12	22	1357	706	474	75	1299 00	33 Vikārin	38 Krödhm	7 Āśvina .
4402	12	223	1358	707	i	-76	*1300 01	34 Sārvann	39 Viśvāvasu .	. 1
4403	1	224	1359	70	8 470	3 77	1301-02	25 Plava	40 Parābhava	
4404	1	225	1860	70	9 47	7-78	1302 03	36 Subhakrit	41 Plavanga	3 Jyeshtha .
440	5 1	226	1361	71	0 47	8 79	1308 04	37 Sõbhana	42 Kilaka	
440	6 1	1227	1362	2 71	1 47	9 80	*1304 05	38 Krödhin	43 Saumya	12 Phálguna
440	7	1228	136	3 7	l2 48	0 81	1305 06	39 Viśvāvasu	44 Sädhärana	
440	8	1229	138	4 7	13 48	81 82	1306 07	40 Parābhava	45 Virodhakrit	
440	9	1330	130	5 7	14 4	82 83	1307-08	41 Plavanga	46 Pandhāvin	8 Kārttika
44	· \	1231.		1	15 4	83 84	*1308 09	42 Kīlaka .	47 Pramādin	
44	1	1232	1	- 1	1	84 85	1309-10		48 Ananda	. 6.3
	112	1233	1	1	1	85 86	1310 1	ì	. 49 Räkshasa	5 Śrāvaņa
	113 414	1234	1	1	ì	186 87	1311-1	1	1	
	415	123	- 1	- 1	}	487 88	*1312 1		51 Pingala . 52 Kālayukta	. 1 Chartra .
	416	123	1	372	- 1	488 89 489 90	1	_	53 Siddhärthin	
	4417	123	- 1	373	722	490 91		1	54 Raudra	10 Pausha
	4418	12,	1	374	723	491 92	ì	1	55 Durmati	
	4419	12	40	1375	724	492 9			56 Dundubh	
~=	4420	12	41	1370	725	493 9	1	1	. 57 Rudhirödgär	

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1 Ārya Siddhānta, mean system.

ncan system	a Siddhānta, 1	1 Aty						
}			ent of the	CEM	EN(OMM	C	
Kalı year			Mean Ludi-solar civil day on wind				OLAR YEAR.	Mean s
	a (here=t, the index of the tithi)	Week-day	Day and month,	shn-	ime o in Mê nkrâ	men	Week-day	Day and month, A.D
1	23	20	19		17		14	13
4396	157 2208	0 Sat	27 Feb (58) .	S 40	M. 37	H 21	0 Sat .	27 Mar (86) .
4397	191-8664	6 Fr	18 Mar (77)	0	50	3	2 Mon	28 Mar. (87)
4308	07-5498	8 Tues	6 Mar (66)	30	2	10	3 Tues	27 Mar (87)
4309	102 1894	2 Mon	25 Mar (84) .	o	15	16	4 Wed.	27 Mar (86) .
4400	316 5047	0 Sat .	lo Mar (74) .	30	27	22	5 Thur .	27 Mar (86)
4401	192 1881	4 Wed	4 Mar (63) .	0	40	4	0 Sat	28 Mar (87) .
4402	226-8277	3 Tues .	22 Mar (82)	30	52	10	1 Sun .	27 Mar (87)
4403	102 5111	0 Sat	11 Mar (70)	0	5	17	2 Mon	27 Mar (86) .
4404	316 8264	5 Thur	1 Mar (60)	30	17	23	3 Tues.	27 Mar (86) .
4405	12 8341	3 Tues	19 Mar (78) .	0	30	5	5 Thur .	28 Mar. (87)
4406	227 1494	1 Sun .	8 Mar. (68) .	30	42	11	6 Fm .	27 Mar. (87) .
4407	261 7889	0 Sat	27 Mar. (86) .	0	55	17	0 Bat .	27 Mar (86)
4408	137 4728	4 Wed	16 H ar (75) .	80	7	0	2 Mon	28 Mar (87) .
4409	13·1558	1 Sun .	5 Mar (64)	0	20	6	3 Tues .	28 Mar. (87) .
4410	47 7954	0 Sat .	23 Mar (93) .	30	32	12	4 Wed.	27 Mar (87).
441 i	262 1106	5 Thur.	13 Mar (72) .	0	45	18	5 Thur	27 Mar (86)
4412	137 7940	2 Mon	2 Mar (61) .	30	57	0	0 Sat	28 Mar. (87)
4413	172 4337	1 Sun .	21 Mar (80) .	0	10	7	1 Sun .	28 Mar (87)
4414	48 1170	5 Thur.	9 Mar (69)	30	22	1	2 Mon	27 Mar (87) .
4415	262 4322	3 Tues .	27 Feb (58) .	0	25	į .	3 Tues .	27 Mar (86)
4416	297 0719	2 Mon	18 Mar (77)	30	47		5 Thur .	28 Mar (87)
4417	172 7553	6 Fm	7 Mar (66)	0		8	6 Fm	28 Mar (87) .
4418	207 3949	5 Thur .	,	30	12	1	0 Sat .	27 Mar (87)
4419 4420	83 0782	2 Mon	14 Mar (73) .	0	25 27	l	I Sun	27 Mar (86) .
¥420	297-3935	0 Sat .	4 Mar (63) .	80	37		3 Tues	28 Mar (87)

		krams	ar year			Jovian Bab	VATSARA.	Mean Intercalated (adhika) lunar	
Kalı.	Saka	Chattradı Vıkrama	Meshadı solar ın Bengal.	Kollam.	AD.	Couthern system,	Northern system	month	
1	2	3	3a	4	5	6	7	8a	
4421	1242	1377	726	494 95	1319 20	53 Siddhārthın	58 Raktālsha		
4422	1243	1378	727	495 96	*1320 21	54 Raudra .	59 Krödhana		
4423	1244	1379	728	496 97	1321-22	55 Durmatı .	60 Kshaya .	3 Jycahtha .	
4424	1245	1380	729	497-98	1322-23	56 Dundubh	1 Prabhava		
4425	1246	1381	730	498 99	1323-24	57 Rudhırödgärın	2 Vibhaya	12 Phälguna	
4426	1247	1382	731	499 00	*1324-25	58 Raktāksha	3 Sukla .		
4427	1248		3 732	500 01	1325 26	59 Krōdhana	4 Pramoda .	•	
4428	1249	1	_	501 02	1326 27	60 Kshaya .	5 Prajāpati	8 Kärttika	
4429	1	1 333	1	1	1327-28	1 Prabhava .	6 Angaras .	•••	
4430 4431	1		1		*1328 29	2 Vibhava .	7 Śrīmukha		
443		-	- }	1 -02 00	1329-30	3 Sukla	8 Bhāva .	5 Srāvana	
443		· { · · · ·	·	}	1 -000	4 Pramöds .	9 Yuvan† .	"	
443			_ '`	1 333 31	1001-02	5 Prajāpati .	11 Iévara .	,	
443	5 12			10 508 09	1004.00	6 Angiras . 7 Srimukha .	12 Bahudhānya	1 Chaitra	
443	6 12	57 13		41 509 10	1000002	8 Bhāva	13 Pramāthin 14 Vikrama	10 Pausha	
443	37 12	58 13	93 7	42 510-1			15 Vrisha	10 Pausna	
44	38 12	59 13	94 7	43 511-1			16 Chitrabhānu		
44	39 19	:80 1:	395	44 512-1	1	1	17 Subhānu	6 Bhādrapad	
44	40 1	281 1	396	145 513 1	1338 39	1	18 Tāraņa .		
		1	397	746 514-1	5 1339-40	1	19 Pārthya	1	
	1		1	747 515-1	6 *1340-4	1	20 Vyaya		
	1	- 1		748 516 1		2 15 Vrisha .	21 Sarvalit .		
		. 1	1	749 517-		3 16 Chitrabhanu .		11 Māgha	
		200	1401	750 518	19 1343-4	4 17 Subhānu .	23 Virödhin		

^{† 10} Dhātri was suppressed in the north by the mean system, but 11 Isvara by the true system. The year A.D. 1331-32 was by the latter system called "10 Dhātri" in the north.

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1 Ārya Siddhānta, mean system.

	СО	MMENCEMEI	NT OF THE			
Mean :	SOLAR YEAR		Mean Luni-solai civil day on whic	r year (mean uh Chaitra Si	SUNRISF OF UKLA 1 ENDS)	Kalı year.
Day and month, A.D	Week day	Time of mean Mēsha- samkrānti	Day and month, A D	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
28 Mar (87)	4 Wed	H M S 8 50 0	23 Mar (82)	6 Fri.	332 0331	4421
27 Mar (87) .	5 Thur	15 2 30	11 Mar (71)	3 Tues	207-7165	4422
27 Mar. (86)	6 Fm	21 15 0	28 Feb (59)	0 Sat .	83 3999	4423
28 Mar (87)	1 Sun	3 27 30	19 Mar (78)	6 Frı	118 0395	4424
28 Mar (87)	2 Mon.	9 40 0	9 Mar (68)	4 Wed	332-3547	4425
27 Mar (87)	3 Tues	15 52 30	26 Mar (86) .	2 Mon	28 3624	4426
27 Mar (86)	4 Wed	22 5 0	16 Mar (75) .	0 Sat	242 6778	4427
28 Mar (87)	6 Fn	4 17 30	5 Mar (64)	4 Wed	118-3612	4428
28 Mar (87)	0 Sat	10 30 0	24 Mar (83) .	3 Tues	153 0008	4429
27 Mar (87) .	1 Sun .	16 42 30	12 Mar (72) .	0 Sat	28 7841	4430
27 Mar (86) .	2 Mon	22 55 0	2 Mar (61)	5 Thur	242 9995	4431
28 Mar (87) .	4 Wed	5 7 30	21 Mar (80) .	4 Wed	277 6391	4432
28 Mar (87)	5 Thur	11 20 0	10 Mar (69) .	1 Sun	153 3224	4433
27 Mar (87)	6 Fm .	17 32 30	27 Feb (58) .	5 Thur	29 0058	4434
27 Mar (86)	0 Sat	23 45 0	17 Mar (76) .	4 Wed	63-6455	4435
28 Mar (87)	2 Mon	5 57 30	7 Mar (66)	2 Mon .	277 9807	4438
28 Mar (87)	3 Tues .	12 10 0	25 Mar. (85)	1 Sun .	312 6003	4437
27 Mar (87)	4 Wed .	18 22 30	14 Mar. (74)	5 Thur	188 2837	4438
28 Mar (87)	6 Fri	0 35 0	3 Mar (62)	2 Mon .	63 9689	4439
28 Mar (87)	0 Sat	6 47 30	22 Mar (81)	1 Sun	98 6067	4440
28 Mar (87) .	1 Sun	13 0 0	12 Mar (71) .	6 Fr .	312 9231	4441
27 Mar (87) .	2 Mon .	19 12 30	29 Feb (60) .	3 Tues	188 6054	4442
28 Mar (87)	4 Wed	1 25 0	19 Mar (78) .	2 Mon	223-2350	4443
28 Mar (87) .	5 Thur	7 37 30	8 Mar. (67) .	6 Fr	98 9284	4444
28 Mar (87) .	6 Fra .	13 50 0	27 Mar. (86) .	5 Thur .	133 5679	4445

				-	CONC	URRE	ENT YEA	R		
			eme	r vear				Joviay sam	VATSARA.	Mean Interculated (adhika) lunar
Kalı	Saka		Chatradi Vikrama	Mēshādr solar ın Bengal	Kolla	m	A D	Southern system	Northern system	month.
<u> </u>	2	- -	3	3a	4		5	6	7	8a
4446	126	7 1	402	751	519	20	1344 45	18 Tārana .	24 Vihrita .	
4447	126	" •	403	752	520	<u> </u>	1345 46	19 Pārthıva	25 Khara .	8 Kārttika
4448	120		1404	753	1	1	1346 47	20 Vyaya	26 Nandana	1.78
4449	12		1405	754	1	{	1347 48	21 Sarvajit	27 Vijaya	
4450	12	1	1406	755	1	24	*1348 49	22 Sarvadhārm	28 Jaya	4 Āshādha
4451	1	- 1	1407	756	524	25	1349 50	23 Virodhin .	29 Manmatha	
4452	15	273	1408	75	52	5 26	1350 51	24 Vikrita	30 Dormukha	
4453	1:	274	1409	75	8 52	6-27	1351-52	25 Khara	31 Hümalımba	1 Chartra
4454	1	275	1410	75	9 52	7 28	*1352 53	26 Nandana	32 Vilamba	
4458	; 1	276	141	1 76	0 52	8 29	1353 54	27 Vijaya		9 Märgasira
445	3 1	1277	141	2 76	51 52	9 30	1354 55	28 Jaya	34 Sārvarın	
445	7 :	1278	141	3 70	32 5	30 31	1355 56	29 Manmatha	35 Plava	0.7151
445	8	1279	141	4 7	63 5	31 32	*1356 57	1	36 Subhakrit	6 Bhādrapada
445	9	1280		1		32 33	1357 58	1	37 S5bhana	
440	1	1281	1	1		33 34	1358 59	i e	. 38 Krōdhin	3 Jyështha
44	1	1282	\ \	- }	- 1	34 35	1359 60		. 30 Višvāvasu 40 Parābhava	o oyesiting
	62	1283	- 1	1	1	535 36	*1360 6	1	41 Playanga	H Māgha .
	163 164	1284 128	- 1	1	}	536 37 537 38	1361 6		42 Kilaka	
	465	128	1	- }	}	538 3 9	1 .		43 Saumya	
	466	128	1	422	771	639 4 0	1	1	44 Sādhārana	8 Kārttika .
	1467	128	- 1	423	772	540 41	1		45 Virödhakrit	
	4 168	12	89 1	1424	773	541 49	1		46 Parıdhävın	
	4469	12	90	1425	774	542 43	3 1367	68 41 Plavanga	. 47 Pramadin	. 4 Åshādha
	4470	12	91	1426	775	543 4	4 *1368	69 42 Kilaka .	. 48 Ānanda	

LXXVI-Contd

1 Ārva Siddhānta, mean system.

	CO	MAI	enci	EVIE	NT OF THE			
Mean	SOLAR YEAR	مدين موجودي مدين موجودي			Mean LUNI SOLAR CIVIL DAY ON WHI			Kali year
Day and month, A D	Weck day	me	ime in M nkrā	isha-	Day and month,	Week day	a (here=t, the index of the tithi)	
13	14	-	17		19	20	23	1
27 Mar (87)	0 Sat .	H 20	M 2	S 30	15 Mar (75)	2 Mon	9 2513	4446
28 Mar (87)	2 Mon .	2	15	0	5 Mar (64)	0 Sat	223 5666	4447
28 Mar (87)	3 Tues	8	27	30	24 Mar (83)	6 Fri	258 2062	4448
28 Mar (87)	4 Wed	14	40	0	13 Mar (72)	3 Tues	133 8897	4449
27 Mar (87)	5 Thur	20	52	30	1 Mar (61)	0 Sat	9 5730	4450
28 Mar (87) .	0 Sat	3	5	0	20 Mar (79) .	6 kr	44 2126	4451
28 Mar (87)	1 Sun	9	17	30	10 Mar (69)	4 Wed	238 5279	4452
28 Mar (87)	2 Mon	15	30	0	27 Feb (58)	1 Sun	134 2112	4453
27 Mar (87)	3 Tues	21	42	30	17 Mar (77) .	0 Sat	168 8509	4454
28 Mar (87)	5 Thur	3	55	0	6 Mar (65)	4 Wed	44 5342	4455
28 Mar (87)	6 Fri	10	7	30	25 Mar (84)	3 Tues	79 1738	4456
28 Mar (87)	0 Sat	16	20	0	15 Mar (74)	1 Sun	293 4891	4457
27 Mar (87)	1 Sun	22	32	30	3 Mar (63)	5 Thur	169 1725	4458
28 Mar (87)	3 Tues	4	45	0	22 Mar (81)	4 Wed	203 8121	4459
28 Mar (87)	4 Wed	10	57	30	11 Mar (70)	1 Sun	79 4955	4460
28 Mar (87)	5 Thur	17	10	0	1 Mar (60)	6 Frı	293 8108	4461
27 Mar (87)	6 Fri	23	22	30	19 Mar (79)	5 Thur	328 4501	4462
28 Mar (87) .	1 Sun	5	35	0	8 Mar (67)	2 Mon	204 1338	4463
28 Mar (87)	2 Mon	11	47	30	27 Mar (86) .	1 Sun	238 7731	4464
28 Mar (87) .	3 Tues	18	0	0	16 Mar (75) .	5 Thur	114 4508	4465
28 Mar (88) .	5 Thur .	0	12	30	5 Mar (65)	3 Tues	328 7721	4466
28 Mar (87) .	6 Fri	6	25	0	23 Mar (82)	1 Sun	24 7798	4467
28 Mar (87)	0 Sat	12	37	30	13 Mar (72)	6 Frı	239 0951	4468
28 Mar (87)	1 Sun	18	50	0	2 Mar (61)	3 Tues	114 7785	4469
28 Mar (88)	3 Tues	1	2	30	20 Mar (80)	2 Mon .	148 1181	4170

				CONCUE	RENT YE	AR		
Kalı	Saka	Chaitrādi Vikrama	Mēshīdi solar year ın Bengal	Kollam	AD	Joyian sa Southern system	Northern system	Mean Intercalated (adhika) lunar month
			N.					
<u> </u>	2	3	3a	4		6	7	8a
4471	1292	1427	776	544 45	1369-70	43 Saumya	49 Rākshasa	
4472	1293	1428	777	545-46	1370 71	44 Sādhārana	50 Anala	1 Chartra
4473	1294	1429	778	546 47	1371-72	45 Vırödhakrıt	51 Pingala	
4474	1295	1430	779	547 48	*1372 73	46 Parıdhāvın .	52 Kālayukta	9 Mārgašīra .
4175	1296	1431	780	548 49	1ุ373 74	47 Pramādın ,	53 Siddhärthin	
4476	1297	1432	781	549 50	1374 75	48 Ānanda	54 Raudra	
4477	1298	1433	782	550 51	1375 76	49 Rālshasa .	55 Durmatı	6 Bhādrapada
4478	1299	1434	783	551 52	*1376 77	50 Anala	56 Dundubhi	1
4479	1300	1435	784	552 53	1377 78	51 Pingala	57 Rudhırödgärın	
4480	1301	1436	785	553 54	1378 79	52 Kālayukta	58 Raktāksha	2 Varšakha .
4481	1302	1437	786	554 55	1379 80	53 Siddhärthin	59 Krödhana	
4482	1303	1438	787	555 56	*1380 81	54 Raudra	60 Kshaya	ll Mägha .
4483	1304	1439	788	556 57	1381 82	55 Durmatı	1 Prabhava	
4484	1305	1440	789	557 58	1382-83	56 Dundubhi	2 Vibhaya	
4485	1306	1441	790	558 59	1383 84	57 Rudkırödgärın	3 Sukla .	7 Āśvina .
4486	1307	1442	791	559 60	*1384 85	58 Raktāksha .	4 Pramoda .	
4487 4488	1308	1443	792	560 61	1385 86	59 Krödhana	5 Prajāpatı	
4489	1309	1444	793	561 62	1386 87	60 Kshaya	6 Angiras	4 Āshādha .
4490	} ====	1445	794	562 63	1387 88	l Prabhava	7 Śrīmukha .	•••
4491	1	1446	795	1	*1388 89	2 Vibhava	8 Bhāva .	12 Phälguna .
4492	1		1	1	1389 90	3 Sukla	9 Yuvan	
4493	-0.0		1	100	1390 91	4 Pramēda .	10 Dhātrı	
4494	1	}	1	1	1391 92	5 Prajāpata	11 Iśvara	9 Mārgašīra .
4495	1	1	1	1	*1392 93	6 Auguras	12 Bahudhānya	••
===			1 500	008 09	1393 94	7 Srimukha .	13 Pramäthin .	

1 Ārya Siddhānta, mean system.

				_		7 111	ra Sidanabta, 1	non system
	C	OMM	ENCE	MI	ENT OF THE			
Mean	SOLAR YEAR.				Mean luni solaf Civil day on whi	Kalı year		
Day and month, A.D.	Week-day	mean	Time of mean Mësha- samkränti		Day and month,	Week day	a (here=t, the index of the tithi)	
13	14		17		19	20	23	1
<u></u>		H	M S				7	
28 Mar (87) .	4 Wed	7		0	9 Mar (68)	6 Fri	25 1015	4471
28 Mar (87)	5 Thur.	13	27 30	9	27 Feb (58)	4 Wed	239 4167	4472
28 Mar (87) .	6 Fn	19	40 (9	18 Mar (77)	3 Tues	274 0564	4473
28 Mar (88)	1 Sun .	1	52 30)	6 Mar (66)	0 Sat .	149 7397	4474
28 Mar (87).	2 Mon	8	5 (1	25 Mar (84)	6 Fri	184 3794	4475
28 Mar. (87) .	3 Tues	14	17 30)	14 Mar (73)	3 Tues	60 0627	4476
28 Mar (87) .	4 Wed	20	30 C	۱,	4 Mar (β3)	1 Sun	274 3779	4477
28 Mar (88)	6 Frı	2	42 30	١	22 Mar (82)	0 Sat	309 0176	4478
28 Mar (87)	0 Sat	8	<i>5</i> 5 (,	11 Mar (70)	4 Wed	184 7009	4479
28 Mar (87)	1 Sun	15	7 30	,	28 Feb (59)	1 Sun	60 3844	4480
28 Mar (87)	2 Mon .	21	20 0	,	19 Mar (78)	0 Sat	95 0230	4481
28 Mar (88) .	4 Wed .	3	32 30	,	8 Mar (68)	5 Thur	309 3392	4482
28 Mar (87)	5 Thur	9	45 (,	26 Mar (85)	3 Tues	5 3469	4483
28 Mar (87)	6 Frı	15	57 30	,	16 Mar (75)	1 Sun.	219 6622	4484
28 Mar (87)	0 Sat	22	10 0	, [5 Mar (64)	5 Thur	95 3456	4485
28 Mar (88) .	2 Mon	4	22 30	,	23 Mar (83)	4 Wed	129 9852	4486
28 Mar (87)	3 Tues .	10	3 5 (,	12 Mar (71)	1 Sun	5 6686	1487
28 Mar (87)	4 Wed	16	47 30	,	2 Mar (61)	6 Fn	219 9839	4488
28 Mar (87) .	5 Thur	23	0 0		21 Mar (80)	5 Thur	254 6235	4489
28 Mar (88) .	0 Sat	5	12 30	, [9 Mar (69)	2 Mon	130 3069	4490
28 Mar (87)	1 Sun	11	25 0		28 Mar (87)	1 Sun	164 9464	4491
28 Mar (87)	2 Mon	17	37 30		17 Mar (76)	5 Thur	40 6298	4492
28 Mar. (87) .	3 Tues	23	50 O		7 Mar (66)	3 Tues	254 9151	4493
28 Mar (88)	5 Thur	6	2 30	-	25 Mar (85)	2 Mon	289 5848	4494
28 Mar (87)	6 Frı	12	15 0		14 Mar (73)	6 Fri	165 2681	4495
	118					1		

	CONCURRENT YEAR										
		Vikrama.	ar year			Joviny 41	divatsara	Mean Intercalated (adhika) lunar			
Kalı.	Saka	Chaitrādi Vil	Mčshřdu solar ra Bengal	Kollam	A D	Southern system	Northern system	month			
1	2	3	3α	4	5	6	7	8a			
4496 4497 4498	1317 1318 1319	1452 1453 1454	801 802 803	569-70 570 71 571-72	1394 95 1395 96 *1396 97	8 Bhāva 9 Yuvan 10 Dhātri	14 Vikrama 15 Vrisha 16 Chitrabhanu	6 Bhādropada			
4499 4500 4501	1320 1321 1322	1455 1456 1457	804 805 866	572 73 573 74 571 75	1397 98 1398 99 1399 00	11 Isvara 12 Bahudhanya 13 Pramithin .	17 Subbānu 18 Tārana 19 Pārthua	2 Vaisākha 11 Māgha .			
4502	1323	1458	807	575 76	*1400 01	14 Vikrama '	-20 Vyava .				

LXXVI—C neld

1 Ārya Siddhānta, mean system

COMMENCEMENT OF THE										
Mesh s	OLAR 1 LAR		MEAN LUNI SOLAR CIVIL DAY ON WHIC	Kalı year						
Day and month, A D	Week day	Time of mean Mesha samkränti	Day and month,	Week day	a (hero=t, the index of the tithi)					
13	14	17	19	20	23	1				
28 Mar (87) 29 Mar (88) 28 Mar (88)	0 Sat 2 Mon 3 Tues	H M S 18 27 30 0 40 0 6 52 30	` '	3 Tues 2 Mon 0 Sat	40 9515 75 5912 289 9064	4496 4497 4498				
28 Mar (87) 28 Mar (87)	4 Wed 5 Thur	13 5 0 19 17 30	19 Mar (78)	4 Wed 3 Tues	165 5898 200 2294	4499 4500				
29 Mar (88) . 28 Mar (88) .	0 Sat 1 Sun	1 30 0 7 42 30		0 Sat 6 Fri	75 9127 110 5523	4501 4502				

TABLE LXXVII

DURATION AND COLLECTIVE DURATION OF MEAN SOLAR MONTHS ACCORDING TO THE FIRST ARYA SIDDHANTA, WITH INCREASE OF a AT DACH SAMAPANTI

Mean lum solar month, ending after the second of the two solar samkrāntis connected	At the mean solar samkrantis.			l collective sami ranti tis,				
with it		Day	Week- day	н	M	s	а	
1	2	3					4	
1 Chartra .	(Mina samk (of pre-							
2 Varšākha	(Mësha-samk.	0	0	0	0	0	0	
3. Jyështha .	Vrishabila-samk	30	(2)	10	31	23	307 3526	
4. Āshādha	Mithuna-samk	60	(4)	21	2	5	614 7052	The duration of each mean solar
5 Śrāvaņa	Karka-samk .	91	(0)	7	33	7 <u>‡</u>	922 0579	month is 30d
6 Bhādrapada	Simha-samk.	121	(2)	18	4	10	1229 4105	10h 31m 21s; and during this
7 Āévina .	Kanyā samk .	152	(5)	4	35	121	1536 7631	period in addition to one whole
8 Kārttika	Tulā-samk .	182	(0)	15	6	15	1844 1157	revolution, the mean moon in-
9 Märgásira	Vrišchika-samk .	213	(3)	1	37	171	2151 4684	creases her dis- tance from mean
10 Paushs	Dhanus samk	243	(5)	12	8	20	2458 8210	sun, in measure- ment by 10,000ths
ll Magha	Makara-samk	273	(0)	22	39	22 1	2766 1736	of circle by, (or in other words
12. Phäiguna	Kumbha-samk	304	(3)	9	10	25	3073 5262	the monthly morease of a =)
_	Mina-samk	334	(5)	19	41		3380 8789	307 352623 726.
1 Chartra (of fol- lowing year)	Mēsha samk (of	365	(1)	6	12		3089-2315*	

^{*} More fully 3688 231484714.

TABLE LXXVIII

Value of a (=t) at beginning of cfnturies of the Kaliyuga, according to the First Arya Siddhanta mean system

[The value of a to be added for beginning of odd years of centuries is given in Table LXXIII above W. D = Week-day]

Century	W -D	a (= t)
36 37 38 30 40 41 42 43 44 45 46 47 48	1 0 0 0 0 0 0 0 0 0 6 6	7715 3525 0583 1816 5112 3787 3980 2078 2848 0369 1715 8659 583 6950 9451 5240 8319 3531 7187 1822 5716 3793 4584 2084 3452 0375

The duration of each mean solar month is $30d-10h-31m-2\frac{1}{2}s$, and during this period in addition to one whole revolution, the mean moon increases her distance from mean sun, in measurement by 10,000ths of circle by, (or in other words the monthly increase of a=) 307 352623726

NB—These values of a agree generally with Professor Jacobi's values above (Vol XI, p 164) The apparent differences are due to two causes. (1) The present estimate of the sum of the greatest equations of moon and sun is about 0.4 greater than that of Professor Jacobi (11) The values here stated for the beginnings of centuries 38 to 12 are for mean sunrise on Saturdays, while his are for mean sunrise on the following Sundays

TABLE LXXIX.

Mean sunrise values of a (distance of mean moon from mean sun), in 10,000 the of circle, for a month previous to the day of mean Mesha-sankranti.

Interval of days from mean Misha- samkränti day	₩-D	a (mean sunriso value)	Interval of days from mean Misha- samkränti day.	W -D	a (mean sunrise value).
31 30 29 28 27 20 25 24 23 22 21 20 19 18 17 16	4560123456012345	9502 4119 9841 0438 179 6756 518 3075 856 9394 1195 5713 1534 2032 1872 8350 2211 4669 2550 0988 2888 7306 3227 3625 3565 9944 3904 6263 4243 2581 4581 8900	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0	6012345601234560	4920 5219 5259 1538 5597 7856 5936 4175 6275 0494 6613 6813 6952 3131 7290 9450 7629 5769 7968 2088 8306 8406 8045 4725 8084 1044 9322 7263 9661 3681 0

N B -The use of this Table is explained in example 1.

TABLE LXXX

THE SUN'S MEAN LONGITUDE DIRING THE HINDU SOLAR YEAR, IN 10,000 THE OF CIRCLE, ACCOPDING TO THE FIRST APYA SIDDHANTA, AT PERIODS OF 24 HOURS EACH, MEASURED FROM THE MOMENT OF MEAN MESHA-SAMKRANII

The same in degrees, etc., can be calculated by Table XLIV, Vol. XIV above

2+ hour period	Sun's mean Jongitude	24-hour period	Sun's mean longitude	24 hour period	Sun's mean longitude	24 Lour priod	Sun's mean
1	2	1	2	1	2	1	2
At moment of mean Mesta	}	42 43 44	1149 8700 1177 2470 1204 7277	87 88 89	2381 8736 2400 2514 2436 6293	127 128 129	3476 9879 3504 3657
euml ran 'i 1 2 3	27 3779 54 7557 82 1336	45 46 47 45	1232 0036 1259 3814 1286 7593 1314 1371	90 91 At moment	2464 0071 2491 3850	130 131 132 133	3531 7436 3559 1214 3586 4993 3613 8772
1 : 5 : 0 : 7 : 8	109 5114 136 5593 164 2671 194 6450 219 0229	19 50 51 52	1341 5150 1365 8929 1396 2707 1423 6486	of mean Aarka samkrānti 92	2500 0 2518 7629	134 135 136 137	3641 2750 3668 6329 3696 0107 3723 3886
9 10 11 12	246 4007 246 4007 273 7786 301 1564 325 5313	53 54 55 56	1451 0264 1478 4043 1505 7821 1533 1600	93 94 95 96	2546 1407 2573 5186 2600 8964 2628 2743	137 138 139 140 141	3750 7684 3778 1443 3805 5222 3832 9000
13 14 15 16	355 9121 383 2900 410 6679 435 0457	57 58 59 60	1560 5379 1587 9157 1615 2936 1642 6714	97 98 99 100	2655 6521 2683 0300 2710 4079 2737 7857	141 142 143 144 145	3860 2779 3887 6557 3915 0336 3942 4114
17 18 19 20	165 4236 492 5014 520 1793 547 5571	At moment of mean Mithuna samlrānh	1666 6	101 102 103 104	2765 1636 2792 5414 2812 9193 2847 2971	146 147 148	3969 7893 3937 1872 4024 5450 4031 9229
21 22 23 24	574 9350 602 3129 629 6907 657 0556	61 62 63 64	1670 0493 1697 4271 1724 8050	105 106 107 108	2874 6750 2902 0529 2929 4307 2956 8086	149 150 151 152	4079 3007 4106 6786 4134 0564 4161 4343
25 26 27 29	694 4464 711 8213 739 2021 766 5800	65 66 67 68	1752 1829 1779 5607 1806 9386 1834 3164	109 110 111 112	2984 1864 3011 5643 3038 9421 3066 3200	At moment of mean Kanyā	}4166 6
29 30 At proment	793 9570 821 3357	69 70 71 72	1861 6943 1889 0721 1916 4500 1913 8279	113 114 115 116	3093 6979 3121 0757 3148 4536 3175 8314	samkrānti 153 154 155	4188 8122 4216 1900 4243 5679
f mean eelabla sunkrast 31	\$33.3	73 74 75 76	1971 2057 1998 5836 2025 9614 2953 3393	117 118 119 120	3203 2093 3230 5872 3257 9650 3285-3429	156 157 158 159	4270 9457 4298 3236 4325 7014 4353 0793
7.2 7.7 3.1	903 4693 939 5471 958 2250	77 78 79	2108 0750 2175 4729 2162 8507	At moment of mean	3312 7207	160 161 162 163	4380-4572 4407 8350 4435 2129 4462 5907
31 31 31	10129307 10129307 10403555 10477364	50 81 82 53	2217 6064 2244 9843 2272 3621	Sımha samkrāntı 122	3333 3 3340 0986	164 165 166 167	4489 9686 4517 3464 4544 7243 4572 1022
41 11	1 { 10 } 5 1 1 4 3	84 95 95	2279 7400 2327 1179	123 124 125 126	3367 4764 3394 8543 3422 2322 3449 6100	168 169 170 171	4579 4800 4626 8579 4654 2357 4681 6136

TABLE LXXX-Contd

24 hour	Sun's mean	24 hour	Sun's mean	24 hour	Sun's mean	24 hour	. 5
period	longitude	period	longitude	period	longitude	period	Sun's mean longitude
1	2	1	2	1	2	1	2
172	1708 9914	220	6023 1286	272		320	8760 9143
173	1736 3693	221	6050 5064	273	7171 1550	321	8788 2922
174 175	17037472 1701 1230	222 223	6077 S943 6105 2622	At moment	1)	322 323	8811 6700 5843 0479
176	1518 5029	224 224	6132 6400	of mean	275000	325 324	8870 4257
177	4517 9507	225	6160 0179	Makara	1(1,000)	325	8807 8036
175	1573 2596	226	6187 3957	samkrānti	7501 5 129	326	8925 1814
179	4900 6364	227	6214 7736	274 275	7528 9107	327	3952 5593
150	1928 0143	228	6212 1511	276	7556 2850	328	8979 9372
181	1055 3922	229	6269 0593	277	7583 6664	329	9007 3150
165	4952 7700	230 231	6296 9072 6324 2850	278	7611 0113	330 331	9031 6929 9062 0707
At moment)	232	6351 6629	279	7638 4222	332	9089 4486
of mean	. 5000 O	233	6379 0407	280	7665 8000	373	9110 8264
Tulā - im-		2.34	6406 4166	281 282	7693 1779 7720 5557	334	9144 2043
krāntı 183	5010 1479	235	6433 7964	283	7717 9336	At moment	1
184	5037 5237	236	6161 1743	281	7775 3114	of mean	(0,000
185	5064 9036	237 238	6188 5522 6515 9300	285	7802 6893	Mina-sum-	9160 G
186	5002 2814	230	6543 3079	286	7830 0672	Irāntı)
187	5119 6593	240	6570 6857	287	7857 4450	335	9171 5822
188	5117 0372	241	6598 0636	288	7884 8229 7912 2007	336 337	9198 9600 9226 J379
199 190	5174 4150 5201 7929	242	6625 4411	259 290	7939 5786	338	9253 7157
191	5229 1707	243	6652 8193	291	7906 7764	339	9281 0936
192	5256 5486	44		292	7994 3343	340	9308 4715
193 [5283 9261	of mean	<i>)</i>	293	8021 7122	341	9337 8493
194	5311 3043	Dhanus	€ 0000 ô	204	8049 0900	342	9303 2272 9300 6050
105 196	5338 6822 5366 0600	samlränti)	295 296	8076 1679 8103 8457	34 3 344	9417 9829
197	5393 4379	244	6680 1972	297	81 31 2236	345	9445 3607
198	5120 8157	245 246	6707 5770 6734 9529	298	8158 G014	346	9472 7386
199	5118 1936	247	6762 3307	290	8185 9793	347	9500 1165
200	5475 5714	248	6789 7086	300	8213 3572	348	9527 4943 9554 8722
201 202	5502 9493 5530 3272	249	6817 0864	301 302	8240 7350 6268 1129	349 350	9582 2500
203	5557 7050	250	6841 4643	303	8295 4907	351	9609 6279
201	5585 0820	251	6871 8422	301	5322 8686	352	9637 0037
205	5612 4607	252 253	6899 2200 6926 5979	At moment		353	9664 3836
206	5639 8386	254	6953 9757	of mean	(0222 2	354	9691 761 6 9719 1393
207	5667 2164	255	6981 3536	Kumbha	8333 3	355 356	9746 51 72
208 209	5691 5913 5721 9722	256	7008 7314)	357	9773 8950
210	5749 3500	257	7036 1093	305	8350 2464 8377 6243	358	9801 2729
211	5776 7279	258 259	7063 4872 7090 8650	306 307	8405 0022	359	9828 6507
212	5804 1057	260	7118 2429	308	8432 3800	360	9876 Oost
213	5831 4836	261	7145 6207	309	8459 7579	361 362	9883 1065 9910 7843
At moment	2	262	7172 9986	310	8487 1357	363	9338 1622
of mean	6833 3	263	7200 3764	311	8514 5136	364	9863 5400
	1	264 267	7227 7543 7255 1322	312 313	8511 8914 8569 2693	365	9992 9179
samkrānti 214	5858 8614	266	7282 5100	314	8596 6472	At moment	
215	5886 2393	267	7309 8879	315	8624 0250	of mean	
216	5913 6172	268	7337 2657	316	8651 4929	Misha-	10,009 9
217	30±0 9950	209	7361 6436	317	8678 7807	samirānti	•
218 210	5095 7507	270 271	7392 0211 7419 3993	318 319	877 G 1536 8723 5384	וויים ניים ניים ניים ניים ניים ניים ניים	
	OHES 1901	211	1 TAN 0000	are l	~.~~ ~ ~ ~ ~ ~ ~ ~		

TABLE LXXXI

Sun's mean longitude Increase in fractions of day according to the First Arya Siddhania

(For the same in degrees, ctc, see above, Vol XIV, Table XLIV)

Incre	ASE PFR HOUR		Increase Pi	ER MIN	LTE	Increase per second			
No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10,000ths of circle	No	In 10 000ths of circle
1	1 1407	1	0 0190	31	0 5894				
2	2 2815	2	0 0380	32		1	0 0003	31	0 0098
3	3 4222	3	0 0570	33	0 6084	2	0 0006	32	0 0101
4	4 5630	4	0 0760	}	0 6274	3	0 0010	33	0 0105
δ	5 7037	5	0 0951	34	0 6164	4	0 0013	34	0 0108
В	6 8445	6	0 1141	35	0 6654	5	0 0016	35	0 0111
7	7 9852	7		36	0 6844	6	0 0019	36	0 0114
8	9 1260	8	0 1331	37	0 7035	7	0 0022	37	0 0117
9	10 2667	9	0 1521	38	0 7225	8	0 0025	38	0 0120
10	11 4074	10	0 1711	39	0 7415	9	0 0029	39	0 0124
11	12 5482	10	0 1901	40	0 7605	10	0 0032	40	0 0127
12	13 6889	11	0 2071	41	0 7795	11	0 0035	41	0 0130
13	14 8297		0 2281	42	0 7985	12	0 0038	42	0 0133
14	15 9704	13	0 2472	43	0 8175	13	0 0041	43	0 0136
15	17 1112	14	0 2662	44	0 8365	14	0 0044	44	0 0139
16	18 2519	15	0 2852	45	0 8536	15	0 0048	45	0 0143
17	19 3926	16	0 3042	46	0 8746	16	0 0051	46	0 0146
18	20 5334	17	0 3232	47	0 8936	17	0 0054	47	0 0149
19	21 6741	18	0 3422	48	0 9126	18	0 0057	48	0 0152
20	22 8149	19	0 3612	49	0 9316	19	0 0060	49	0 0155
21	23 9556	20 21	0 3802	50	0 9506	20	0 0063	50	0 0158
22	25 0964	22	0 3993	51	0 9696	21	0 0067	51	0 0162
23	26 2371	23	0 4183	52	0 9886	22	0 0070	52	0 0165
		24	0 4373	53	1 0077	23	0 0073	53	0 0168
		25	0 4563	54	1 0267	24	0 0076	54	
		26	0 4753	55	1 0457	25	0 0079	55	0 0171
		27	0 4943	56	1 0647	26	0 0082	56	0 0174
		28	0 5133	57	1 0837	27	0 0086	57	0 0177
		29	0 5323	58	1 1027	28	0 0089	58	0 0181
		30	0 5514	59	1 1217	29	0 0092	59	0 0184
==	1		0 5704			30	0 0095		0 0187

No. 7-TWO NEW GRANTS OF DHRUVASENA [I] FROM PALITANA.

By V S SURTHANKAR, PH D

I edit here two new Valabhi copper-plate grants (one complete and one incomplete) which were presented, in 1918, to the Trustees of the Prince of Wales Museum, Bombay, by the Bhāvnagar Darbar, which is ever ready to further the cause of epigraphic research by placing ungrudgingly the materials, as they are discovered, in the hands of students of Indian history for investigation and publication, and, when possible, by having them exhibited in centrally situated museums. The plates under reference were discovered at the bottom of a small tank outsid the Satrunjaya Gate at Pālitānā while the tank was being drained during the time of the la Thakor Saheb of that State 1

A .- PLATES OF DHRUVASENA I.; [VALABHI]-SAM[VAT] 207.

The plates, which are inscribed on one side only, are two in number, each measuring roughly 114° broad by 64° high. The edges are just slightly raised in order to protect the writing, which (excepting portions of ll 1-4) is in a state of perfect preservation. The plates are of fair thickness, but the letters, being deep, show through on the reverse sides. The engraving is well executed. Each of the plates has two holes bored in it. A ring of copper passing through one pair of them serves to hold the plates together at one end. The seal, which is an invariable accompaniment of such plates, is missing. The aggregate weight of the plates is about 102 tolas. Each plate contains twelve lines of writing, the last line but one of the second plate contains the date

From the foregoing description of the plates, as well as from the facsimiles of them appearing with this article, it will be evident that this record does not differ in any striking particular from any of the hitherto published records of the same king. Only in the portion dealing with the grant proper does the text of this inscription differ, for example, from that of other plates of this king which were discovered some years back also at Pālitānā, and have been edited by Dr. Sten Konow in a former issue of this Journal. The royal donor, Dhruvasēna, as well as the dataka Mammaka and the writer Kikkaka, are names well known to the Indian epigraphist. It will, therefore, be unnecessary to go here into a minute description of the characters and orthography of this inscription. It will suffice to observe that the alphabet offers a specimen of final t (l. 15), final m (l. 23) and the numerical ideograms 200, 7, and 5, and that the name of the founder of the dynasty is spelt as Bhatakka (13) At the end of line 12 is to be found a horizontal stroke, about $\frac{1}{4}$ long, evidently drawn with a view to fill up the empty space remaining at the end. The reason for leaving the space vacant appears to be that the writer did not wish to commence, at the end of the line, a long word the whole of which would not have been contained in the short space that was left over

The inscription is one of the Mahārāja Dhruvasēna [I.] of the Maitraka dynasty, and the grant contained in it is issued from the city of Valabhi. The object of the inscription appears to be to record the confirmation by Dhruvasēna of the donee, a Brāhmaṇa named Mādhava, of the Śunaka gōtra, student of the Chhandōga School, and resident of the village of Jyēshthānaka (stated to be Akshasaraka-prāvētya) in the Histavapra-harani in the possession of some

¹ My friend Pandit Girijasankar Vallabhji of Rajkot, Curator of the Prince of Wales Museum, Bumbay, informs me that the five Palitana plates edited by Prof Konow (above, Vol. XI, pp 104 ff) were discovered at the same place and at the same time as the plates here described.

³ Above, Vol. XI, pp 104 ff.

land already enjoyed by him in the village of which he was a resident Besides Hastavapra, which is the modern Hāthab (6 miles south of Göghā in the Bhāvnagar State), and Valabhī, which is commonly identified with the modern Valā (situated in 21° 52′ N and 71° 57′ E), none of the places can be located. The date of the record is the year 207 (given as usual in numerical ideograms), and the 5th (tithi) of the dark fortnight of Vaisākha. The year when referred to the Gupta-Valabhī era yields AD (207+320)=A.D 527

There are two expressions in this inscription, both occurring in the portion dealing with the grant proper, which deserve some comment they are Akshasaraka-prārēsya- (1 12) and sa-śaibaram (1 16) The latter we will consider first

Being mentioned along with the well-known technical expressions sa-hirany-ādēyam and sa-bhāta-tāta°, sa-śaibaram must be a term of like nature, ie a technicality of the lawyers, but what its significance may be I am unable to surmise. There can be no question regarding the correctness of the reading, the letters are perfectly distinct. The word śaibara is not to be found in dictionaries, nor have I come across it elsewhere. I can only think that it may be, as it stands, a clerical error, but I am unable to suggest any plausible emendation for it

The word prātēšya in the other expression referred to above is also one that presents some difficulty to the interpreter. Here it is used in compound with Akshasaraka, evidently a placename, and serves to locate more definitely the village Jyēshṭhānaka situated in the Hastavapraharanī. As far as I know, the word prātēšya has been met with only twice before once in another Valabhī grant, occurring there in a compound with the same place-name Akshasaraka, and once again in the Khariar grant of Mahāsudēva, compounded with the word Navannaka, which is also a place-name

The former record forms one of the five Valabhi grants from Pālitānāl edited by Prof Sten Konow, and is a grant of Dhruvasena I, dated in Samvat 210 In that connection Prof Konow rightly points out that the phrase Akshasaraka-prāiesya of the grant corresponds to the Akshasaraka-prūpiya in a third Valabhi grant,2 uz the Ganesgad (Baroda) plates of Dhruvasēna dated Samvat 207 Hultzsch, when editing the latter grant, translated the phrase by 'n high belongs to the Akshasaraka-prāpa' Prof Konow, who regards prāvēšya and prāpiya as synonyms, rejects Hultzsch's rendering of Akshasaraka-prāpiya and advances the suggestion that prātēšya in this connection means the same thing as in the phrase a-chāta-bhata-prāiēśya, and accordingly translates the phrase by 'which can be entered from (ie, which borders on) Akshasaraka' I cannot, in the first place, admit that the expressions a-chāta-bhata-prāiēšya and Akshasarakaprārēšya correspond exactly For in the former the first men ber of the compound comprises the logical subject of the verb contained in prātēšya, but such cannot be the case with the second expression, even if we assign to it the meaning which Prof Konow does Secondly, I do not understand what is meant by saying that a village could be 'entered' from such and such a place If, moreover, prānēsya meant the same thing as 'bordering on,' as Prof Konow asserts, I cannot help thinking that the writer would have employed a simple word like samipa or parsea-raren, which he at hand, to express that simple idea of proximity rather than use the circumlocution of praiesya or prapiya Hultzsch, on the other hand, appears to me to be undoubtedly on the right track He looks upon prāpīya as a derivative of prāpa, which he takes to be a word denoting a territorial division smaller than an ahara Similarly the analogous term prārēšya should also be looked upon as a taddhīta of prārēša That this derivation is correct may be seen from the Kharrar plates of Mahasudeva, in which a village is described (1 4) as Kshrimad-āhāriya and Karannaha-etat-prārēsya No one will dispute that āhāriya is derived from ahara ('district,' 'province') by the addition of the suffix -iya That supplies us with the clue to the explanation of the other words under consideration here All these words are derived

¹ Above, Vol MI. pp 101 ff , and P'a'es

² Above, Vol III, p. 320, and Plate

by the addition of the secondary -(i)ya to the strengthened forms of the roots \(\bar{a}\)-hri, pra-(\(\bar{a}\)-)vis and pra-(\(\bar{a}\)-)\(\bar{a}\) for ('bring to,' 'carry to'), words with only minute differences of meaning. I feel, therefore, constrained to reject the interpretation of Prof. Konow in favour of the other. Pr\(\bar{a}\)piya. I take to be 'that which belongs to the pr\(\bar{a}\)visions of and pr\(\bar{a}\)visions fix that which belongs to the pr\(\bar{a}\)visions fix (or prav\(\bar{e}\)same and pr\(\bar{a}\)visions as territorial divisions smaller than the \(\bar{a}\)hriv.

TEXT.1

Plate A.

- 10 ²परमभद्यारकपादानुब्या(ध्या) तो मचागलध्रुवसेन: कुश्रनी सन्तिन खानायुक्त-नियुक्तकचाट-
- 11 भटद्राष्ट्रिकमञ्चत्रभुवस्थानाधिकरणिकदाण्डपाशिकादीनन्याकः वधानंबद्ध्यमान
- 12 दर्भयत्यस्तु वसांविदितं यथा मग्रा इस्तवप्रइरखामचसरकपावेश्य-

Plete A.

- 13 च्येष्ठानक्यामे उत्तरसीिक पादावर्त्त्रप्रतं षष्ट्यधिकं तिस्मन्नव ग्रामव व्यापन
- 14 संगोत्राणां क्रन्दोगसब्द्वाचारीणां ब्रह्मणमाधवपूर्वभुष्यभुष्यमानकं (:) सातापित्री:
- 15 पुरुवाध्यायनायात्मना¹⁰यैहिकासुश्विकयथाभिलिवितप्रलावातिनिशित्ता¹¹माचन्द्राकी-गर्णवित्तितिसरित-
- 16 पर्वतस्थितिसमकासीन पुत्रपीत्रान्वयभोष्या समीवरं महि[र*] खादेय सभूत्या-तप्रत्यायिवमुद्याः
- 17 **उदकातिसर्गेण ब्रह्मदेयं निस्**ष्ठ¹¹[1*] यत एषां ब्रह्मदेयस्थित्या भुजता¹⁵
- 18 स्त्रसायावधा¹⁷ विचारणा वा न कार्यास्मर्दमजैर¹⁸गामिसदृन्दपतिभिक्ष¹⁹नित्या-गौत्रयोग्यस्थिरं मानुष्यं
- 19 सामान्य²⁰ च भूमिदानपालमवगच्छित्रिरयमखाद्दायीनुमन्तव्य [:|*] (उ) यसच्छिन्द्या-टच्छिकामानं²¹ वानुसीटे-

¹ From the original plates, and a set of estampages

² Up to this, the text is practically identical with the text of the Pälitänä plate of Dhruvasina 1 (dated servat 206), published above, Vol XI, pp 106 ff The only variae lectiones are ununportant mistakes of orthography, which it would be unnecessary to register individually as the facsimiles are there for reference.

² Read outu.

⁴ Read व्यागत्-

In the original a short horizontal stroke after M

Read चेंच.

⁷ A short vacant space between ब and व्य Read यासवासाव्य

⁸ Read °चारिया बाश्रय°.

Read ्यूक्ष भूत्रभुष्यभाष. The anusvāra is written over the line between क्षा and मा. The letters purovā क्षेत्रभुष्य-केरेश्वाभुवक्षांत्रकरेत्रकरेत्रभुवक्षांत्रकरेत्रकरेत्रभुवक्षांत्रकरेत्रकरेत्रभुवक्षांत्रकरेत्रकरेत्रभुवक्षांत्रकरेत्रकरेत्रभुवक्षांत्रकरेत्

¹⁰ Read of.

¹ Read w

¹² Read ou

¹⁸ Rend T'.

¹⁴ Read w

¹⁵ Read Horal

¹⁸ Read तांच

¹⁷ Read "milli.

¹⁸ Read T

¹⁰ Read Wr.

²⁰ Read ar.

³¹ Bead यशिक्यादाकि

- 20 त्स पंचिम: महापातकैस्रोपपातकैस्रयुक्तस्य दिप चात्र व्यासगीता: स्रोका भवन्ति [॥*] बहुभिर्व्वसुधा
- 21 भुक्ता राजभिस्तगरादिभि: ।*] यस्य यस्य यदा भूमि: तस्य तस्य तदा फलं [॥*] स्वदत्तां परदत्तां वा यो हरेत
- 22 वसुन्धरां [1*] गवां श्रतसन्द्रस्य इन्तु[:*] 'प्राप्नोति किल्विषां' [॥*] पूर्वे-दत्तां दिनातिस्यो यत्नाद्रक् युधिष्ठर(:) [1*]
- 23 मिं मिहमतां श्रेष्ठ दानाच्छ्योनुपालनम् [॥*] दूतकः प्रतीहारममासः [॥*] सं २०० ७ वैश्रख व ५ [॥*]
- 24 खहस्तो मम महाराजधु[व*]सेनस्य [॥*] लिखितं क्षिक्षकेनिति [॥*] TRANSLATION

[Ll 1-11 contain the usual preamble, for translation, cf, for instance, that of the opening lines of the Pālitānā plates, No 1, edited by Prof Konow, Ep Ind, Vol XI, p 108.]

(Lil 12-16) Be it known to you that for the purpose of increasing the religious merit of (my) mother and father, and for the sake of the attainment of the desired reward both in this world and in the next, I have confirmed, as brahma-dēya, with libation of water, (the enjoyment of) one hundred and sixty pādāiarttas, on the northern boundary of the Jyēshthānaka village belonging to the Akshasaraka-prāiēsya in the Hastavapra-haranī, which had (formerly) been and are (still) being enjoyed (by the donee?), for (the benefit of) the resident of the same village, (namely,) the Brāhmaṇa Mādhava of the Śunaka gōtra, a student of the Chhandōga School,—to last for the şame time as the moon, sun, ocean, earth, the rivers and mountains, to be enjoyed by the succession of his sons and sons' sons,—with (?) śaibara, with gold (and) ādēya, with bhūta, vāta, and (?) surety of holding (pratyāya)

(Li 17-19) Wherefore, no enquiry should be made or obstruction caused (to him) by any one, while he is, according to the proper conditions of a brahma-dēya, enjoying, cultivating, or assigning (it to others). And this our gift should be assented to by those born in our lineage, and by future good kings, bearing in mind that power is perishable, the life of man is uncertain, and that the reward of a gift of land is common. And he who confiscates it or assents to its confiscation incurs the guilt of the five great sins together with the minor ones

(Ll. 20-22) There are also two verses sung by Vyāsa about this

[Here follow two of the customary verses]

- (L 23) The dūtaka is the pratīhāra Mammaka (Dated the) 5th (tithi) of the dark (fortnight) of Vaisākha (in the) year 200 7
- (L 24) (This is) the sign-manual of me Mahārāja Dhruvasēna [I]. Written by Kikkaka

B-ANOTHER PLATE OF [DHRUVASENA I.]

This plate, which contains only the opening portion of a land-grant of the Maitraka king Dhruvasčna I, is inscribed on one side only and measures roughly $10\frac{3}{4}$ broad by $6\frac{3}{2}$ high The

¹ Read (FUI

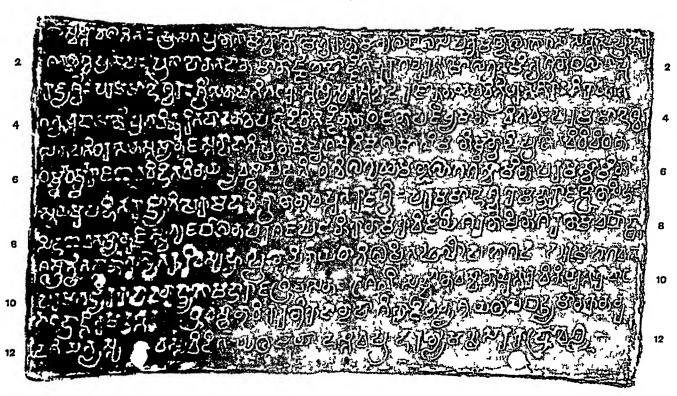
² Over HI there is a peculiar sign, the meaning of which is not apparent [Ithink it is apadmaniya —Ed]

⁸ Read प Read ही Bead वैशाख

The construction of line 14 is somewhat confused; it is not clear who the dones was, or who, at the time of the grant, was in possession of the land which is the object of the grant. As it stands, the text does not make any sense; my rendering is conjectural

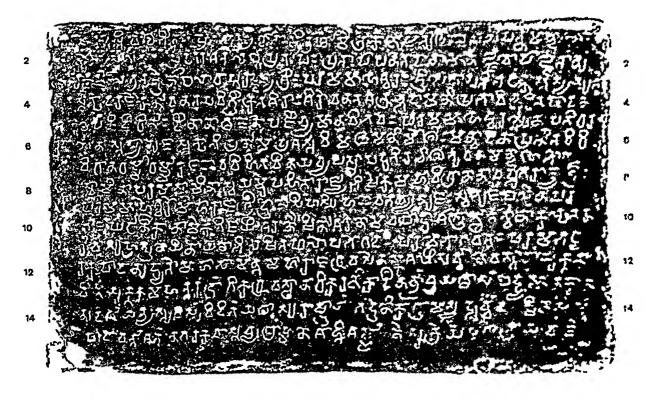
Two Palitana Grants of Dhruvasena [I].

Ai

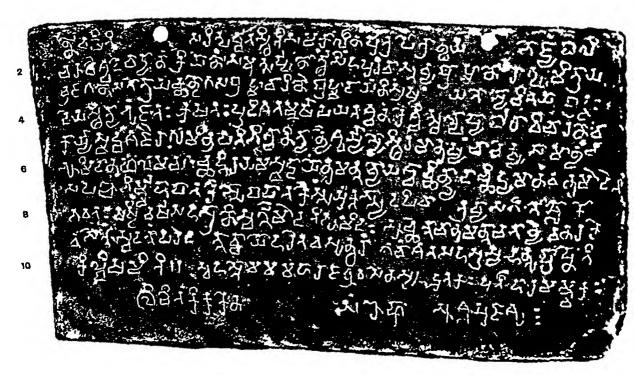


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24	MARRES TEST TO THE PROPERTY OF	24



Kathiawad Plate of Dhruvasena [1] · Samvat 206.



SCALE ONE-HALF

edges are just slightly raised, in order to protect the writing, which is in a state of excellent preservation throughout. The letters, which are deeply incised, show through on the reverse side of the plate. The engraving is well executed. The plate has a pair of holes bored at two adjacent corners and intended for receiving the ring and seal, which are missing. Its weight is 56 tolas. It contains lifteen lines of writing. The letters are of the period to which the plate refers itself, and of the type met with on other plates of the Maitraka dynasty. In short, this record is exactly like any of the large number of grants of Dhruvasēna I that have latterly been brought to light. A detailed description of the characters, language and orthography of these plates, or even an English rendering of the text, seems superfluous. We may take it for granted that the dūtaka of this grant was the patīhāra Mammaka, and the writer Kikkaka

The grant was issued from Valabhi by the Mahāsāmanta Mahārāja Dhruvasēna [I] to the Brāhmana Śūntiśarman of the Ātrēya gōtia, [a student of] the Vāji [sanēya] School and a resident of Nagaraka, either bestowing upon him or confirming him in the possession of one hundred pādārarttas of land on the south-eastern boundary of the village of Bhadrēnikā, situated in Surāshtrā

I am unable to identify Bhadiēnikā Nagaraka is probably Vadnagai, the home of the Nügar Brühmans

TEXT.

Plate B

- 12 . . . 'महासामन्तमहाराजप्रुवसेनङ्गुश्रली सर्व्वानेव खानायुक्तक-
- 13 विनियुक्तकमञ्चलरद्रागिकध्रुवस्थानाधिकरणिकादीनन्यांच यथासबद्धामानकान-
- 14 नुदर्शयत्यस्तु वस्रंविदितं यथा सुराष्ट्रायां भद्रेणिकाग्रामस्य पूर्वेदिचण-
- 15 पादावर्त्तश्रतं नगरकवास्तव्यवाह्मणशान्तिशमीणे श्रावेयसगोवाय वार्जिं-

POSTSCRIPT.

A PLATE OF DHRUVASENA DATED SAM. 208

Since writing the above I have come across a new Valabhi plate containing the concluding portion of a grant of Dhruvasēna dated in sam 206, about which I should like to add a few words in continuation of the above note on the Bhavnagar plates. This new plate was placed in my hands for decipherment by Mi. J C Chatterjee, Dharmādhyaksha (Secretary in the Ecclesiastical Department) to the Government of His Highness the Gaikwar of Baioda. It was sent to him, he told me, officially from Kathiawad for decipherment, that is all that I could elicit from him regarding its previous history. The plate is 11½ inches long by $6\frac{1}{2}$ inches broad, the edges are raised to protect the writing, which is in a state of perfect preservation, and the characters belong to the period to which the plate refers itself in one word, the grant is similar in every respect to the records of the Valabhi kings that have hitherto come to light.

I From the original plate, and a set of estampages

² Up to this the text is practically identical with the text of the Pālitānā Plato of Dhravasāna I (dated 206), published abovo, Vol XI, pp 105 ff. In 1 6, read *t-pād-ābhipranāma* for *t-pābhīpranāma*, and Manvādinā for *dānā

⁸ Read Elfa.

⁴ The rest of the inscription is missing

The inscription is one of Māhārāja Dhruvasēns [I.] and records the grant of a village (of which the name must have occurred in the missing portion of the grant and is therefore now lost) to a Brai many named Botghamitra of the Vrajagana gōtra, a student of the Chhandōga School, and read at of Simhapura, for the maintenance of certain sacrifices. The grant is dated sam. 200 6, Asama sukla 3. The samuat year, when referred to the Valabhi era, yields A.D. (205+319) 525. The detal a was Mammaka, and the writer Kikkaka, as usual.

The only point worthy of notice in this grant is the village-name Simhapura, which is residence in it as the residence of the grantee. It is tempting to identify it with Sihōr in the east of the Kathiawad peninsula, a junction on the Bhavanagar-Wadhwan Railway, not far from Vals the ancient Valabhi

[KATHIAWAD PLATE OF DHRUVASENA [I.]]

TEXT 1

- I manga-kaluti-sarit-parvvata-sthiti-samakālinam putra-pautr-ānvaya-bhōjyam bali-
- 2 chara-ta.«vad"t-ndynnům krayňnům samutsarppan-arttham Simhapura-västavyah-nhmana-Rôtghamitrāya
- 3 Vrajagana-sa-götráya (Ch)Chhandöga-sa-brahmacháriné brahma-dáyam nisrishtam [1,*] yatözsyzőchitnyá brahma-
- 4 dí ya-sthityá bhumjatah krishatah pradiéatah=karshāpayataé=cha na kaié=chit=svalpăpy-shādhā vichāranā vä
- 5 kirry-k-mad-vamsajair-ägummii-nripatibhis-ch-änityany-aisvairyyäny-asthiram männshyam ch-ävökshya sämänyam cha
- 6 hhami-dana-phalam-aragachchhadbhir=ayam=asmad-däyö=numantavyö yas=ch-ächchhindyid-ächchhidyamänam v=änumödöt
- 7 🙉 prīchahlur-mmahā-pātakais-s-opapātakais-samyuktas-syād-apu ch-ātra Vyāsa-gītan 615kau
- t hinand [[*] shashtim[*] varsha-sahasrāņi svarggē mēdati bhūmidaḥ[[*] āchchhettā ch-ānumantā cha tāny-ēva narakē
- 9 van't [['t"] sva-dattām para-dattā[m"]=vvā yō harēta vasundharām [|"] gavām data sahanraya hantu[h"] prāpnēti
- 10 kiliri arī[[1]]-iti sva-hastā mama mahkrēja-Dhruvasēnasya [[]] dūtakah prathēra Mammakah [[]]
- 11 1 th 'am Kikkakons [[]*] sam 200 6 Asvayuja su 3 [[]*]

> 6 -SRIRANGAM COPPER-PLATE GRANT OF DEVARAYA II;

BY THE LATE T A GOPINATHA RAO, M.A., TRIVANDRUM

Ti-temple of Sci-Ratganaths at Srirangam possesses, among others, two sets of copperplants in the reign of the Vijayanagara king Divaraya II The inscriptions engraved apartition tensels are edited below from the impressions prepared under my supervision.

No I. BAKA-SAMVAT 1349

The color of three places (size 10 × 6) in), of which the first and the third bear war and the color ramely, the record side of the first and the first side of the third.

The inscription is in good state of preservation. The alphabet in which the record is written is Nandinagari, and the language partly Sanskrit and partly Kannada. The first section covers 41 and the second 34 lines, and the remaining portion contains the usual admonitory and imprecatory verses. At the end appears as is usual with the documents of the kings of the first dynasty of Vijayanagara, the word \$\int_{ri}\cdot Virapakska\$, the sign-manual of the king, written in the Telugn-Kannada alphabet. The same sort of mistakes, careless execution of the engraving, leaving room for a number of corrections, erasures, interlineations, etc., and other faults common to the other grants of this period are to be found in these two sets of copper-plates also, there is no necessity for them to be noticed in detail here, they are noted in the foot-notes at the appropriate places

The record is dated Saka 1349, which is expressed by the chronogram dhiraloha, this year corresponded to the cyclic year Playanga. In the Kannada portion the Saka year is given as 1350, and the same Playanga is said to be current. On a Sunday, which was the Utthana dvadasi tithe in the bright half of the month Karttika, the king Deva-Raya II granted to the God Ranganatha of Srirangam the village of Pandamangalam together with the sub-villages, Tirunalür, Seranaibanda-perumā-nallūr, and Sunepuha-nalūr, in the name and for the ment of his mother Narayanambika. The genealogy of the king is traced thus—

Sangama
| His middle son
| Bukka I
| md Gaurāmbikā
| Harihai ēšvara
| Pratāpa-dēva-Rāya I
| md Dēmāmbikā
| Vijaya-Bhūpati
| md Nārāyanāmbikā
| Dēva-Rāya II

Deva-Raya II beats the biridas, Raj-adhiraja, Raja-param-estara, Bhash-atilanghi-bhapalabhujanga (= Bhāshege-tappura-rāyara-ganda), Mūru-rāyara-ganda and Hindu-rāya-suratrāna. Having ascended his ancestral throne and while protecting the kingdom, residing in his capital Vijayanagara, which is situated on the bank of the river Tungabhadra, king Deva-Raya made the grant mentioned above in the presence of the god Virupaksha on the bank of the Tungabha-The villages Pāndamangalam, Tilunalūl and Sēranaibanda-perumā-nallūr are said to have been situated in the Rajagambhīra valanādu on the south side of the river Kavērī, and Sunepuha-nalūi in the Mēlmuri of the Mala nādu, a sub-division of the Rājarāja valanādu, on the The Kannada portion adds that the villages belonged to the Amarada north of the same river All of them belonged also to the Tiruchchirappalli rajya oi chavadi The purpose for which the grant is made is given in full detail in the Kannada portion. From the income of the villages twelve perpetual lamps should be burned, flower-garlands dedicated and one festival celebrated The grant was made as an auxiliary to the Gō-sahasra Mahādāna performed by The grant was ordered to be executed from the first tithi of the bright fortnight of The income from the villages situated on the south of the Kāvēri was the month Ashādha 1403 coms (kula-gadyāna), and that from the village on the north of the river 420, total 1,82

gadyanas. A number of taxes leviable in these villages are included in the grant, they are taxes on the nansey, punsey, pum-payer, vāsal- and manai-ppēru-kadamai, tari-kkadamai, mavadai, maravadaı, kulavadai, kalāyam, tirigai-āyam, pēr-kadamai (tari-kadumai), āļukku-nīr-pattam: mahamar, hattıgar-avasaram, patai-hanikhar, Aqı-Karttıgai-pachchar, and all old and new taxev Several of these have remained unexplained up till now. It is easy to understand the nature of the first four, they are levied on wet and dry cultivation, on inferior crops, on houses and compounds and on looms, māradai, mararadar and kuļaradar are taxes on animals, trees and tanks. that is, perhaps, when animals are sold in markets, on fruit-bearing trees and for fishing in Kalāyam literally means tax on stone, it is very likely a tax payable for quarrying stones from hills, what tax is meant by tirigai-ayam is not known Per-ladumin means taxes on persons, a sort of poll-tax evidently. Alukku-nir-pailam is a tax for maintaining the person appointed for making regular supply of water to the fields this appears to be the same Magamas is a conjupt form of maganmas, the nature of hing a son to another. this levy is still in force among certain merchants in the Tanjore and Trichinopoly districts On all sales and purchases the merchants collect a small, but fixed, sum and utilize the money thus collected for some public purpose Compare similar words, as köyij mas corrupted into köyma, arānma, etc Katiigai-arasaram appears to be some sort of tax on fire-wood, and pata: (padai)-kkānikkai is the contribution to be made for the maintenance of the army. Pachchai means a kānikkai, a nazar, a present on important occasions. In this sense the word is employed in contemporary literature, for instance, in Sri-iachana-bhūshanam, I, 33 and 31 Such kānilhas seem to be given in the months of Adi and Karttigas.

The following places and rivers are mentioned in the inscription —Tungabhadra, Vijayanagara, Tiruchchirāppalli, Kāvērī, Rājagambhīra taļanādu, Pānda-mangelam, Tirunalūr, Sēranaibanda-perumā-ņallūr, Rājarāja talanādu, Mēlmuri-of the Mala nādu and Šuno-puha-nalūr. Of these the Tungabhadrā and the Kāvērī are the well-known rivers of South India Tiruchchirāppalli is the modern town of Trichinopoly, the head-quarters of the district of the same name. The part of the country immediately to the south of the river Kāvērī was known to medieval inscriptions as the Rājagambhīra raļanādu, and that on the north of the same as the Rājarāja valanādu. Mala nādu is a sub-division of this territory and has given its name to a section of the Tamil Brāhmanas, i.e. the Bihach-charana community of Mala nādu Vijayanagara, the capital of the famous Hindu kings of Southern India, is the modern Hampo on the Tungabhadrā. Pānḍa-mangalam is a village a mile and a half west of Trichinopoly, this and Tirunalūr are in the Trichinopoly Tālūk, the correct form of the name Šēranaibanḍa-pern-mā-nallūr is Šēraṇai-venṛa-perumāl-nallūr. There is a village some distance south of Pāṇḍa-mangalam called Vēndarāya-nallūr. This is perhaps the same. Šunepuha-nalūr is situated at a distance of seven and a half mīles to the north-nest of Trīchinopoly

TEXT

[Metres - vv 1-25, Anushtubh, and v. 26, Salıni]

First Plate Second Side.

- 1 त्रीगणाधिपतय नम: [॥*] नम(:))स्ते [॥*] नम(:)स्ते [॥*] नम(:)स्तुगिस
- ² रचुवि चंद्रचाम[र*][चा]रवे [।*] नेलोकानगरारंभमूल-

From impressions prepared under my supervision

² Read ogminigfen.

- रूतंभाय संभवे 1 (तु) । $[1 \quad 1^{\circ}]$ भू $[2^*]$ स्ते 2 भवतां भूते 3 भूयादान्क्ये 4
- कुंजर:[।*] श्राइविंहारकांतार श्र[ा*]⁵गमान्यस्य [यो]-
- गिन: ।[। 2*] स्त्रेसं व: प्रसुरीक्षर्यात्त्वोणीसंभ्युद्वहंनयं⁰[।*] क्रि]-
- डाक्ततरभूद्यस्य क्रीडापल्व[ल]सब्धिंग[:॥ ३*] प्रस्ति चीरा[णै]-
- योद्धतमपां पुष्य]सनुत्तमां । मस्तानदं निर्माखमाध-१ 7
- त्ते धिरसीयर: [॥ 4*] सदासीदनिधेस्तस्य संतानियद्र[सं]-10
- [जि]ते [।*] प्रभृदायर्थम[ा]ष्यं वसुधायास्तपःफलं [॥ 5*]
- संगमी नाम रा[जा]भू [त्सा]रभूते तदन्वये [।*] रेजे यस्य 10
- यश:श्रिंधी:" सर[णी]व सुरापमा [॥ 6*] सर्वरत्नि[भी-11
- स्तस्य समाडासीत्तनृभुवं । यस्ते बुक्तमहीपाली स-12
- णीनामिव कौस्तुभ: [॥ 7*] तस्य गौरांविकाजानिस्त(नयो वि)-13
- नयोभृह्याँ वत: [।*] [हा]रगीरयश.पु रहारिहरिह[रे]-14
- थ्यर: [n 8*] ¹⁵यषोडं शमहादानयश्रमां दिग्विहारिणां [!*] सूय[सा]-15
- सभवंनाल¹⁰ भुवनानि चतुर्देश [॥ 9*] प्रतापदेवरायाख्यः 16
- पुत्रोमृ[द्भु]"वि विश्वतः [।*] प्रमोद दव सूत्ती यः प्रजानां स्वैग्-17
- चौर[भ] 10 व प्रतापारनी रणांक के [1*] प्रतापारनी रणांक के [1*] के 18
- विजितो येन(1) वीरेण विजयश्रीकरग्रह: [॥ 11*] तस्य दे-19
- मांविकाजानेस्तनयो विनयोन्नतः [।*] विद्यानिधि॰ 20
- विंशेषक्षी वीरी विजयसूपति: [॥ 12*] दयानिधेर[भू]-
- त्तस्य देवीनारायणांविका [1*] शीरेरिव महालच्नी: शं-22
- [का]रस्येष पार्वती [॥ 13*] पुत्रक्षं तयो [:*] स्नाध्यं पु²⁰र्वजन्म त-23

Second Plate - First Side

- 24 प:फलं [1*] देवरायमचीपाली दाता दीव्यति भूतले [॥ 14*]
- 25 विक्रमे विक्रम[[*]दित्यं भीगे भोजमिवायरं [।*] राजराजं वि-
 - 1 Read mo
 - 4 Read ogjud.
 - 7 Read व्सन्त्रधिः
- 10 Bead सन्तान यद्धंतितम्.
- 18 Read 11
- 16 Read oanie
- 19 Read रणाङ्गणे

- 2 Read सूयस्य
- 5 Read कान्तारमा
- 8 Read offer.
- 11 Read यश; सिन्धी;
- 14 Read u.
- 17 Rend of.
- 20 Bend q.

- 8 Read भत्य
- 6 Read वेंद्रश्रयम्.
- PRead पद्मान यदनिर्माख्य.
- 12 Bead सामाडासीत्रम्सवास्.
- 15 Read यह्मीडश्.
- 18 Read on.

- तर्षे राजानं यं प्रचचते [॥ 15°] प्रभंगसंगका किंगवंगाचा-26
- यामरादिभि: [1⁴] राजानी यं दिष्वेंते राजिनहै: खयं[ध]-27
- तै: [॥ 16^t] राजाधिराज(:)स्तेनस्त्री यो राजपरमे[च]र: [।*] आपाति-28
- खंघिभूपालभुनंगविं[त्]होंन्नतः ॥ 17*] स्नूत्रायरगडाकः 29
- परराजभयंतर: [1t] हिंदूराय[सु]रचाणी वंदिवर्गेण वं-b 30
- र्र्धते [॥ 18*] श्रीतुंगसद्रापिषे नगरे विनयाद्वये [।*] पिच्यं 81
- सिंचासन प्राप्य पासयनपृ[य]वीति सां [n 19*] पुंख्य सि[ा*]का-
- यगं[खो] सी देवरायमचीपति:[।*] विवलीने सक्तरा-º
- [व्हे] म्न[वंगा] ह्वय[वच्छ्¹⁰रे] [॥ 20*] क्य[ा] त्तिके मासि सुंधायां वाद[ग्या]-
- सार्क्षवासये12 [1*] तुंगसद्रानदीती[रे] श्रीविक्रपाच्चसंनि-
- [धी] [॥ 21*] चि[सि]रापसिरा[च्ये] रांजगंभीरवलसिटे13 कावेरिय-
- दिचिषे पाडमंगलग्रा[म*] [द्र]लुभी तिस्नलूरिष् सेर्नैबंड-
- पेक्सानल्रि उत्तरेयाश्चकंन्यायां¹⁵ राजराजवलसि-38
- धे प्रवजपदे सुनेपुद्धनसुर्धा उभी श्रीरंगराजश परि-
- यार्थं ¹⁶नारायणविभध[ा*]नत: घेनैव¹⁷ देवराजेन दत्तं श्रोव-
- र्नावुधारया¹⁸ ॥ खस्ति श्री जयाबुदाय सेक्ववर्ष¹⁰ १३५० प्रवं-
- गसंवक्कृ²⁰रद कार्तिकसुघ उत्तानुद्द[1⁹]दसि³¹पुखकालद 42
- स्रोमं²²न्महाराजाधिराजपरमेस्व³³र स्रीवीरप्रतापदे-
- 44 वरायमहारायक श्रीरंगनायदेवरिंग नारायणदेवी-
- 45 श्रे[ा*]वगल हेखरिक श्रींदु श्रवसरव नखसुव श्रद्वे दिन
- 46 [भौ]दने इनेरडु परिवाणनंदादीविगेयगमाले भौन

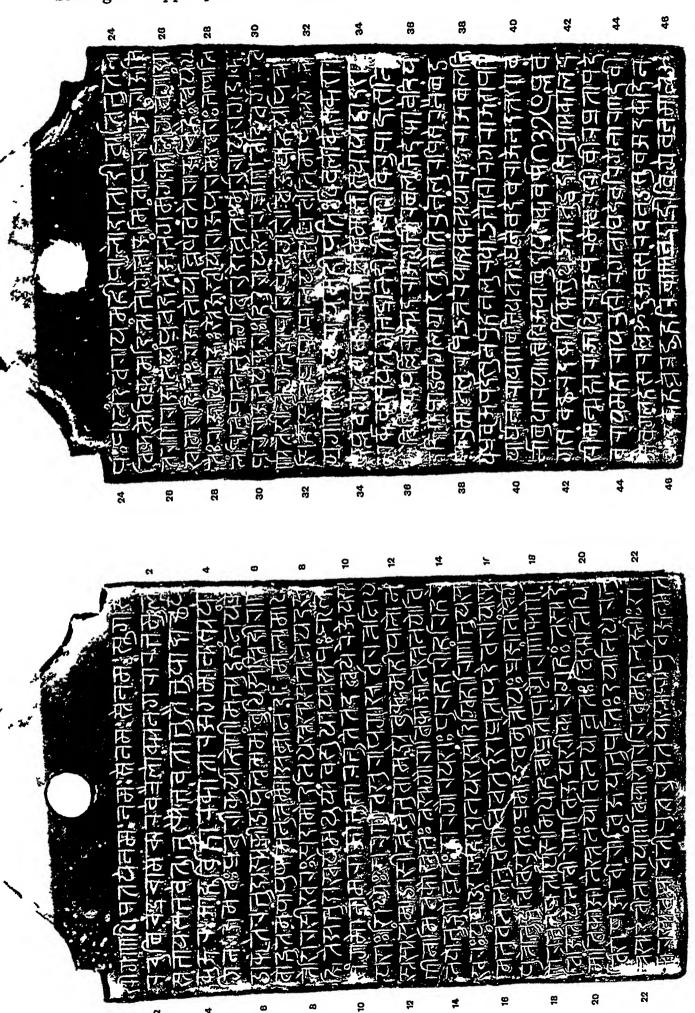
Second Plate. Second Side

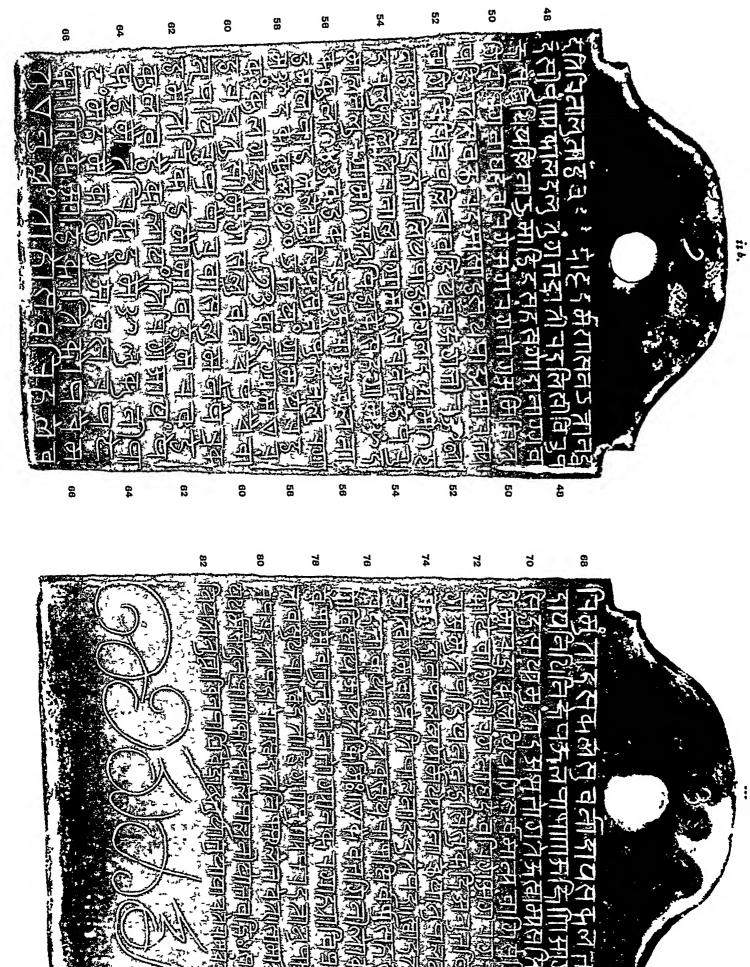
दु तिरुनासु ग(ा) खदुदके कोष्ट दर्भश्रासन रिष्] उत्तानद [१ª] उत्तानद रि]-47

- Bead निषेत्रसे
- 4 Bend (\$750
- Read you
- 10 Read रस
- 18 Bead राजगभीरनलाशियकावेगी.
- " Bood शीरज्ञानच परिपर्यार्घ .
- 11 Read ज्यान्यस्वम्यः
- 23 Kead #
- " Beed जान्द्री

- 2 Read भुजात्त विचदोत्रत:.
- E Reed q.
- 8 Read व्यक्षीसी.
- 11 Read natidi.
- 14 Read पाण्डसद्वाचाम नलुमी-
- 19 Read oपान्याभिधानत, तेगैव.
- 20 Read रस.
- 28 Read 4
- 25 Read HHO.

- Read offesta.
- s Read िस.
- Bead श्वीचाव्हे.
- 12 Read 7.
- 15 Read सत्यवान्याया •
- 18 Read खर्णागुधारया.
- 21 Read चलानहादमी.
- 24 Road oach.





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दसीपुंख्येकालदलु तुंगभद्रातीरदलि त्रीविक्रप[ा]-
48
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- चसंनिधियसि नाज साडिद सहस्रगीदानागाव[1]-
- गि योरंगनायदेवरिंगे श्रंगरंगभोग श्रमिरित-50
- 51 पंडिंगे तरसवच्छरद श्रामाष्ट सुघ पाद्य'
- यागि चिरिप्रं^{ग्}पन्निचाविष्य राजगंभीर श्रीक 52
- 53 नाड अमरदहोभितय पांडमगतद गाम
- 51 दरनुइमि तिरनात्र ग्राम १ सेरनेभंडपेर-
- मालैनलुर ग्राम १ भतु पिडावीसइ
- 56 के बाल १४०३ [I^{*}] वडकर
- ड मलनाड मेलेसुरिय सुनेपुरुनलुर ग्रा-57
- म श्रीदके कुल ४२० [1*] डसय(:)ग्रामयेरड-58
- कं क्रकगद्य[1*]ण १८२३ [1*] कंदग्राम एर-59
- डर चतुसीमेरी सलुव नंचें पूंची वां-60
- नपयिर पुंपीस वांसलुमनेपेरक-61
- ्रमे¹⁰ तरिकड्मी¹¹ मावडे मखडे 62
- क्तळवडे कलायं तिरिगै यायं पे 63
- कडसे गतरिकडमे श्रीलुक्तनीपा-
- टं सहसे कठिगैश्रवसर पटे-13
- काणिके पाडिकातिकी(1)पचे म-66
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 - 1 Read you.

2 Read नाय.

- Read ongali
- 4 Read तरसवरसरह पायादगुर पायामे 5 Read तिविचिरापितः
- 6 Rend शेरनैवेन्रपेदमाळ्नूहूर. P Road आन्टिकी

? Rend 明初.

- 5 Read परवारे

- 10 Read पुन्पयिर्वाशव्सनिपेहक्यसे. 11 Read कडमे.
 12 Read चेर्क्सिसे. This and tare-kadamae are repeated unnocessarily
- 18 Read &

- 16 Road oकाशिक पश सत्तु.
- 15 Read श्रीसविद.
- 18 Read W.

17 Read wil.

18 The letter स in पालन looks like व.

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- न सोग्या वरग्राह्या ल [1*] सूसुजां 78
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- ञीविरूपाच¹² 83

ABSTRACT OF CONTENTS.

Verse 1 Adoration to Sambhu (Śwa)

- V 2 Adoration to Gancsa
- V 3 Adoration to Varaha
- V. 4-5 On earth, as the finit of its tapas, was born Yadu in the family of the Moon, which came out of the ocean of milk and is worn by Siva on his head
- Vv 6-7 In his race was born a king named Sangama His middle son was Bukka. who resembled the jewel kaustabha among other jewels
- Vv 8-9 To bim by Gaurāmbikā was born a son, named Harihera, who was gentle The renown of his making the sixteen great gifts (mahādāna) redounded even and famous beyond the fourteen worlds
- Vi 10 12 His son was Pratapa-deva-Rays, who appeared the embodiment of the happiness of his subjects. He conquered his enemies in battles by the prowess of his arms and obtained the favour of Vijaya-Lakshmi (goddess of Victory) To him, as husband of Dēmāmbikā, was born the prince Vijaya-Bhūpati
- \mathbf{V}_{1} 13-18 The queen of \mathbf{V}_{1} aya-Bhūpati was Nārāyanāmbikā. As the fruit of the meritorious acts done by them in their previous birth, Deva-Raya was born to Vijaya-Bhūpati and Nārāyanāmbikā and distinguished himself on earth He is compared to Vikramāditja in valoni, to Bhoja in his bloga (P) and to Rāja-iāja (i.e. Kubēra) in his munificence The kings of the Anga, Kalinga, Vanga, etc., countries did homage to this king, holding changers and other royal insignia in their hands. He bore the birudas Rāj-ādhirāja, Raja param-isvara, Bhash-atilanghi-bhupala-bhujanga, Muru-rayara-ganda, Para-raja-bhayankrea aud Uindu-iāya-suratrāna

V 19 to the end of line 41 Deva-Raya, who, seated on his ancestral thione in Vijayanagam, which has the Tungabhadrā as its ditch, ruled the earth, made the grant of the villages of Panda-mangalam, Tirunalür, Seranaibanda-perumā-nalür and Sunepuha-nalür The gift was made in the Śaka year 1349, which is given by the to the god Rangenathe chronogram dha alol a and which corresponded to the (cycho) year Playanga, on a Monday

rest a

⁴ Read El

[[]Liad cassa-Ei] " Pest प्लेशान भावित.

² Read Ent

[!] Read हासि.

⁸ Read ouritu सद्भ

n Read मुयी सूबी.

¹⁵ This line is written in Telogo-Kannada characters.

⁸ Read पृष्टि हसाबि.

Read of

Read of

the twelfth tithi of the bright fortnight in the month Kārttika, in the piesence of the god Virāpāksha on the bank of the river Tungabhadiā. The villages Pānda-mangalam, Tiiunālūr and Sēranaibenda-peiumā-nalūr aie said to have been situated on the south bank of the river Kāvērī, in the Rājagambhīra valanādu, belonging to the Trisirāppalli rājya, and Sunaipuhanalūr in the Rājarāja valanādu of the same rājya, but situated on the noithein bank of the Kāvērī.

Lines 41-74 In the Saka year 1350, Plavanga, on the auspicious occasion of the Utthanadyādašī in the bright half of the month Kārttika, the king Vīra-Pratāpa-deva-Rāya Mahārāya gave the following śāsana (order) for performing one avasara consisting of twelve harivānas of perpetual lamps, garlands and one festival every day to the god Ranganatha in the name of Narayanadevi-auva the gift of the villages of Panda-mangalam, Tirunalur and Seranaibandaperumā-nalūr, yielding 1,403 kula-gadyānas, and Sunepuha-nalūr, yielding 420 kula-gadyānas, was made for the unga, ranga, etc., of the god Śii-Ranganātha, as an auxiliary to the gosahasra mahādāna made by the king on the auspicious occasion of Utthana-dvadasī in the presence of the god Vnupaksha on the bank of the river Tungabhadra Panda-mangalam, Tırunalür and Seranaıbanda-peruma-nalür weie in Amarada höbali of the Rajagambhīra valanādu in the Chirichrāpalli chāvadi, whereas Sunepuha-nalūr was situated in the Melamuri of the Mala nadu, a sub division of the Rajaraja valanadu in Vadagarai (northern bank of the Kaveri) These villages were to be enjoyed from the first tithi of the bright fortnight of the month Ashadha of the same year The king granted these villages with the following rights of enjoyment namely, the taxes on the lands under wet and dry cultivation, as also van-payer and pun-payer, the taxes called thev asal-, manar-peru-kadamar, tarekkadamaı, müvadaı, maravadaı, kulavadaı, hal-āyam, tırıgaı-āyam, pēr-kkadamaı, tarıkhadamai, ālukunīpāttam, mahamai, kattīge-avasara, padai-kānīkkai, Ādi-Kārttīgai-pachchai and all other new and old taxes, all income in gold and paddy and the eight kinds of enjoyment, nidhe. nıkshēpa, etc

Vv 22-26 The usual admonitory and imprecatory verses Line 83 contains the words Srī-Virūpāksha, the king's signature

No 9.-MOMIGATTI INSCRIPTION OF THE 49TH YEAR OF VIKRAMADITYA VI.

BT LIONEL D BARNLTT

Momigati is a village in Diārwār District, a few miles to the north-west of Diārwār town, in lat 15° 30½ and long. 74° 59′, according to the Bombay Survey¹ The present inscription, now published for the first time, was found in the local temple of Kalamēśvara, on the left side of the image—An ink-impression was prepared for the late Di-Fleet, which is now in the British Museum, from it I have edited the text—The stone has a rounded top decorated with sculptures, namely, in the centre a linga, on the proper right of which is a priest standing facing it, while another upright figure stands to the proper left, all three being in a shrine, to the proper right of the priest, a cow and calf, to the right of the latter, a scimitar; in the opposite corner, a bull, above these, the sun (on proper right) and moon (on left). Below this is the inscribed area, in two compartments—the first of these, comprising lines 1-2, is 2 ft. 3½ in wide and 2½ in high, and the second, containing lines 3-30, is of the same width and 2 ft 9 in high.—The character is good Kanarese, of an upright rounded type that was beginning to come into use about the middle of the twelfth century. The height of the letters varies from ½ in to § in. The jh (1 9) and \$\tilde{\pi}\$ (11, 19, 26) may be noted—The language is Old Kanarese, with two

¹ The "Meemeeguttee" of the Indian Atlas seems to be intended for Momigatti; but its position does not quite tally with that of the latter as given in the Survey

formal Sanskrit verses (Nos 1 and 5) The ancient \underline{l} has been changed to l in $k\bar{v}lam$ (1.14), $b\bar{e}lpa$ (1.16), alidavarggey= (1.27), $\bar{e}l$ - $k\bar{o}ti$ (1.28), and to r in $garddey[u^*]mam$ (1.22); it is falsely used for r in todald= (1.16) P is changed to h in halli (II.19, 20), but elsewhere retained Three words are of some lexical interest, viz $ty\bar{a}ga$ -jaga-jhampi jhampalacharyya (1.9), on which see above, Vol XII, p. 251, and nrita (1.14), which is abstracted from the ordinary $s\bar{u}nrita$, and is parallel to anritika, "untruthful" in Asvaghosha's Buddha-charita, II. ii

The record, after referring itself in II. 2-4 to the reign of Tribhuvanamalla (Vikramāditya VI), introduces the Kādamba feudatory Jayakēsi [II], who is decorated with the characteristic titles of his dynasty, and his senior queen Mailala-dēvi (the daughter of Vikramāditya VI), as jointly reigning (II 4-13) On the historical points involved herein it suffices to refer the reader to Vol. XIV above, p 299 f Then follow verses in praise of Vāmašakti, a Śaiva divine, and Udayamma Gāvunda (II. 13-17), after which comes the formal statement of a gift of land and houses by the latter to the sanctuary presided over by Vāmašakti (II 17-24)

The date is given on il 17-18 as the cyclic year Krödhi, the 49th of the Chālukya Vikrama era, Ashādha suddha 5, Sunday This is irregular The given tithi was current at sunrise on Wednesday, 18 June, A.D. 1124, and ended about 9 h 16 m after mean sunrise 1

The only places mentioned are Kundür (1 19), Eranigereyahalli (1 19), Konnasagere (1 21), and the *tīrthas* (1. 25) Kundūr is the modern Narēndra, on which see above, Vol XIII, p 298

TEXT.2

[Metres vv 1, 5, Anushtubh, vv. 2-4, Randa]

- Namas=tumga-ś[i*]raś-chumbi-chamdra-chāmara-chāravē [i*] trailōkya-nagar-ārambha-mūla-stambhāya Sa(śa)mbhavē || [1*]
- 2 Svastı samasta-bhuvan-āsraya Śri-Prı(prı)thvī-vallabha mahārājādhırāja paramēšvara paramabhatt[ā]-
- 3 rakam Satyāśraya-kula-tilakam Chāluky-ābharanam šrīma[t*]-Tribhuvanamalladēvara vijaya-rājyam=u-
- 4 ttaröttar-ābhivridhdhi-pravardhdhamānam=ā-chamdr-ārkka-tāram-baram saluttam-ire ||

 © Tat-pāda-padm-ōpajīvi || © ©
- 5 svastı samasta-bhuvana-samstüyamana Hara-Dharani-prasüta-Trilôchana-Kadambavamsa-mah-oda[ya]
- 6 Mahīdharēmdhra(dra)-sikhar-ābhyudayamāṇa-mahā-prachamda-mārttaihda mārttamda-kar-ātitīvra-nija-pratā[pa]-
- 7 vasikrı(kri)ta-sakala-mahi-mamdalan=uttumga- simha-lāmohohhanam vānara-mahā-dhvajam permmatti-tūryya-nirgghōshanam
- 8 chaturā(ra) šīti-nagar-ādhishthit-āshtādas-āsvamēdha-dikshā-dikshita-kula-prastīta Himsvad-girimdra-rumdra-sikhara-
- 9 sthāpīta-mahā-saktī-prabhāvam tyāga-jaga-jhampi jhampal-achāryya miššamka-Rāma su(su)bhata-kanaka-nīkash-ōpala

¹ I have to thank Mr R Sewell for his kindness in verifying my calculations.
2 From the ink-impression.

- 10 saran-agata-vajra-prākāra lok-aika-kalpa-druma samkrāntī-dhavala mūrttī-Nārāyana kirttī-mārttamda
- 11 mandalıka-lalāta-patţa vann-gharatta śu(su)bhata-tāja-śikhāmani Kādamba-chādāman=īty-akhila-nām-āva-
- 12 lı-samā(ma)lamkritar=appa sriman-mahāmamdalčsvaiam Jayakēsi-dēvar si īmatpiriy-arasi Mailala-ma-
- 13 hādēviyaru sukha-samkathā-vinodadim rājyam-geyyuttam-ire | Pasid=āi = bband=una bōdidod=osed=a-
- 14 tt-ill-ennad-ikkut-irppare külum vasudhätalam-ellam bannısuvinegam Vāmašaktipamdita-dēvar || [2*] Nrita-vākjam vamdi-ja-
- 15 n-āšrīta-sura-taru Malla-Gavumdan=arra(gra)-tanūjam matīmantam Hara-bhaktam kshitiy-olag=Udayamma-Gavu-
- 16 dan-uttama-purusha || [3*] Sidil-umam ripu-nichayam todald(id)=edeyol bēlpa janako sum-taruv=annam kudut=e-
- 17 deyol Bānana vol Mrīda-blaktam dharanītaladol=Udayama-Gavumdal | [4*]
 Svasti filmach-Chālukya-
- 18 Vikrama-varshada 49noya Krōdhi-samvatsarad=Āshāda(dha) su(śu)ddha 5 Ādityavāradamdu śriman-mahā-pa-
- 19 ttanam Kundūra padinaruvar=ggāvumdugala Pañcha-matha-sthānada sannidhiyol= Eranigereyahalliy=Ā-
- 20 karıka(?)² Malla-Gävumdana magan=Udayama-Gävumdam hallıyındam paduval= kal-pumjıkey=adarini mü-
- 21 dal=ondu muttar=pparala keyyuman=ür=umba Konnasagereya müdana kötıyalu nüru ka-
- 22 mma garddey[u*]mam dövanm temkal=eradu maneya mvësanamumam Kalı-dëvasvāmıya sthān-āchā[ryya Vā]-
- 23 mašaktı-pandıtarggo kāl-garchchı dharā-pūrvvakam mādı sarvva-namašya(sya)-sarvva-bādhā-parıhāram=[āgi]-
- 24 y=Udayama-Gāvumdamn=ā-chamdra-sthāyıy=āgı bitta dhanmma || Î dharmmamam pratipāli[si]-
- 25 davargge Gamge Väranäsı Kurukshëtra Prayāgey=emba punya-tirttha-sthänamgalol säsıra kavı[le]-
- 26 ya kodum kolagumam pañcha-ratnadol=kattısı vēda-pāragar=appa mahā-brāh-manargge dānam-geyda [pha]-
- 27 la Î dharmmaman-alıdavarggey≃ā sās[ı*]ra kavıley[u*]man=ā vēda-pāragar=appa mahā-brāhmaṇa[ru]-
- 28 mam čl-koți tapodhanaruman=ā punya-tirttha-sthānamgalol=konda mahā-pātakan=akku ||
- 29 Sva-datt[ā*]m para-datt[ā*]m vā yam(yō) harētı(ta) vasumdharā[m*] shashtır= vīrisha-shāsani⁸ vi=
- 30 shta(shthā)yām jāyatē krimi [5*] 🚇 🔞

The syllable ma is metrically superfluous 2 Apparently so, but the first ka may be read as ra or ga.

² Road varsha-sahasrans. 4 Read krimih.

TRANSLATION.

(Verse 1) Homage to Sambhu charming with the jak-tail fan which is the moon kissing his lofty head, the foundation-column for the construction of the city of the three worlds

(Innes 2-4) While the victorious reign of—hail!—the refuge of the whole world, favourite of Fortune and Earth, great Emperor, supreme Lord, supreme Master, ornament of Satyāśraya's race, embellishment of the Chālukyas, king Tribhuvanamalla, was advancing in a course of successively increasing prosperity, (to endure) as long as moon, syn, and stars—

(Lines 4-13) While he who finds sustenance at his lotus-feet,—hill —the Mahāmanda-lēśvara Jayakēsi-dēva, who is decorated with the whole series of titles of honom, to wit, "the noble serion of the Trilōchana-Kadamba lineage spring from Hara and the Earth which is praised over the whole world, great august sun rising upon the peaks of the Lord of Mountains, fascinating the whole circle of the earth by peculial majesty exceedingly intense as the sun's riss, having for crest a stately hon, having a banner (bearing the device) of a great ape; who is (saluted) with the noise of permatti drums and (other) musical instruments, who is spring from the race presiding over eighty-four cities and consecrated in the consecratory rites of eighteen horse-sacrifices, who has established the puissance of his might upon the massive summits of the Lord of Mountains, the Himavat, a phampalāchārya surpassing the world in bounty, a Rāma in interpidity, a touchstone for the gold of warriors, an adamant castle for seekers of protection, a unique tree of desire for the world, white (of fame) as the time of conjunction¹, a Nārāyana incarnate, a sun of glory, a frontal fillet of feudatory princes, a grindstone to foes, a crest-jewel of warrior kings, a crest-gem of the Kādambas," and the Schiol Queen Mailāla-mahādēvi, were reigning with enjoyment of pleasant conversations—

(Verse 2) If any, being hungry, should come and ask for food, Vamasakti Pandita-dēva will gladly give to him rice without saying may, so that the whole earth praises (him)

(Verse 3) Of Malla Gavunde, who is pleasant of speech, a celestial tree to panegyrists and dependents, the eldest son is Uday mma Gavunda, who is sage, devoted to Hara, a right noble man on earth

(Verse 4) Like a thunderbolt on occasions when hosts of foes assail (him), like a celestral tree on occasions when he makes gifts to suitors, devoted to Mrida like Bāna, is Udayama Gāvunda on earth

(Lines 17-24) Hail! On Sunday, the 5th day of the bright fortnight of Āshādha in the cyclic year Krōdhi, the 49th (year) of the Chālukya-Vikrama era, in the piesence of the Sixteen Gāvundus of the gieat city of Kundūr (and) the establishment of the Five Mathas, Udayama Gāvunda, son of the Ākarika(?) Milla Gāvunda of Eianigereyahalli, having laved the feet of Vāmišakti Pandita, Āchārya of the establishment of Kali-dēva-svāmi, with pouling of water granted for as long as the moon shall endure a pious foundation on sarvanamasya tenure, immune from all conflicting claims, (comprising) a gravel-field of one mattar west of the village (and) east of the stone-heap, and a paddy-field of one hundred kamma at the eastern corner of the Konnasagere used by the town, and two dwelling-houses south of (the

(Lines 24-28 a prose formula of the usual type)

(Verse 5 a common Sanskrit verse)

¹ Cf dwāļīchara-dhavaļam, above, Vol XII, p 269. The phrase probably refers to the Dīpāvalī or Diwāļī festival, from Asvina kr 14 to Kārttika su 2

No 10—ARASIBIDI INSCRIPTION OF THE REIGN OF SOMESVARA I SAKA 969 By Lionel D Barnett.

Arasībīdi, the ancient Vikramapura, is a decayed village in the Hungund tāluka of Bijāpūr District, situate in lat. 15° 54′ and long 75° 58′ (cf. Ind. Int., Vol. 30, p. 260). Its name is written as Arsubidda on the Indian Atlas sheet 58 and the Hyderabad Survey sheet 30. In the local temple known as the Sūlegudi was found a broken tablet containing the present record, an ink-impression was prepared for the late Dr. Fleet, which is now in the British Museum, and from it I now edit the text

The upper part of the stone is decorated with some sculpture. Immediately over the inscribed area, on a plinth, is a figure of a squatting Jina, with a cow and sucking calf on his proper left, between two columns, and above this is a series of architectural divisions culminating in a vase-shaped sikhara. The inscribed area below is about 2 ft $2\frac{1}{4}$ in broad and 2 ft 2 in. high, but a line or two at the bottom is lost.—The character is a fair Kanalese of the period, the letters vary from $\frac{1}{2}$ in. to $\frac{1}{8}$ in. in height. The re of rishiyargga [m*] in 1 8 is denoted

by a modified n with a tail attached —The language is Old Kanarese prose, except for the

Sanskrit verse-formula of which the first two letters appear on 1 22 The archaic l is changed to l, except in eppattara (1 12, for $\bar{e}lp^2$, through $\bar{e}rpp^2$) The word saruge (1 7) is of some lexical interest

The record, after referring itself to the reign of Trailokyamalla-dēva, ie Somēśvara I (ll. 1-1), relates that Akkā-dēvi, while in the camp around the fortress of Gōkāge, made a grant of lands to the Gonada-bedangi Jain temple at Vikramapura, for the maintenance of the establishment and of the attached friars and nuns, among whom special mention is made of Nāgasēna Pandita of the Hogari Gachchha of the Varasēna Gaṇa of the Mūla Sangha (ll. 4-9) The rest of the inscription is taken up with the details of the endowment, among these we learn that some of the land was purchased from Dadigarasa (l 17), who was very possibly a member of the Bappura family which has left a record of its history in the Sūdi inscription no. K. (above, Vol. XV, p 106, cf Ind Ant, Vol XXX, p 266)

The date is given on 11 9-11 as Saka 969, the cyclic year Sarvajit, the new-moon of Chaitra, a Sunday, an eclipse of the sun These details are perfectly regular. The given titus corresponded to Sunday, 29 March, A D 1047, on which day it ended 6 h 14 m after mean sunrise. On the same day, at 5 h 51 m after mean sunrise, there was an eclipse of the sun (Indian Calendar, p 121)

The following place names are mentioned Gōkāge (1 6), Vikramapura (11 6, 13), the Kisukādu Seventy (11 11-12), Gānada Hālūr (1 12), Muruvadina Pālu (1 13), Rāyagatte (1 15), the tank of Kappadi (1 18), Benares (1 19) Gōkāge is the modern Gōkāk, the headquarters of the Gōkāk tāluka, in Belgaum District, situate in 16° 10' lat and 74° 49' long. Vikramapura is Arasībīdi (see above) On Kisukādu see Ind Ant., Vol XXX, p 259 li Gānada Hālūr is given on the Indian Atlas as "Ganuduhal," about 3 miles SE of Arasībīdi in lat. 15° 52½' and long. 76° 1' (cf 1611, p 261) The other local names I cannot trace

² This title is evidently derived from Akkā dēvi's title gunada bedangiyar, and shows that the temple was under her especial patronage

¹ See Dyn Kan Distr, pp 435, 439 Dr Fleet understood the words sutterdda to mean "besieging," which is possible, but not necessary

This name occurs also, in the older form Pogari, in Ind Ant, Vol XIX, p 272, and Ep Carn VII 1. Sk 124

⁴ I have to thank Mr R Sewell for his kindness in verifying my calculations

TEXT.1

1 Svastı samasta-bhuvan-āsraya Śrī-Prithvī-vallabha mahārājādhirāja

paramēšvara-paramabhattāraka Satyāśraya-kula-tilaka Chāluky-abharaņa śrīma[t*]-Trailōkyama-

2 ramabhattaraka Sanyasiaya-ama samasa -abhivri(v ri)ddhi-pravarddhamanam=a-chamdr-3 11a-dēvara vijaya-rājyam=uttarōttar-ābhivri(v ri)ddhi-pravarddhamanam=a-chamdrārkka-tā-

4 ram-baram saluttam-ıre [|*] Svastı arı-nrī(nrı)pa-makuta-ghatıta²-charap-āravī-(vı)mdeyar=Ggamgā-snāna-

pavitreyar=ddīn-ānātha-chī(chi)ntāmaṇigal=ēka-vākje[ya*]r=ggunada bedamgijer=appa śrīmad-A-

6 kkā-dēvi[ya*]r Gōkāgeya kōteya vu(su)tt-ırdda bidinalu Vıkramapurada Gonada-bedamgıya

7 Jin-ālayakke khanda-sphutīta-sudhā-kai mmakkam gandha-dhūpa-dīpakkam sarugīga[m] Mūla-samga(gha)-

8 Va[ra*]sēna-gaṇada Hogariya gachchhada Nāgasēna-panditargga[m*] all=irppa rishiyargga[m*] ajjiya-

9 rgga[m*] āhāra-dānakkam ajjiyara kappadak[k*]am kuduva bhūmi Sa(śa)kavarsha 969 neya

10 Sarvvajit-samvatsarada Chaim(chai)trad=amāsye Ādityavāradamdina sūryya-gra-

11 haṇa-nımıttam dhārā-pūrvvakam mādı nagaradh(d)=anubhavaṇe(ne ?) mukhyam= āgı Kısu-

12 kād=eppattara balıya sarvva-namasyam=āgı bitta bādam Gānada Hālūr=omdu

13 Vıkramapurada yisanyada des[e*]y[ım*] tomtam mattar=omdu ürim temka Muruvadına pā-

14 la naırıtyada deseyim pandıta-Nāgadēvamge sarvva-namasya martta³ pamnneradu allım temka

15 parekāra Kētōjamge sarvva-namæsya mattar≖irppatta-nālku ūrīm badaga Rāyagaṭteyīm

16 mūda pagekāra Kētōjamge tōmta mattar=omdu allım paduva kalkutıga Sūrōjamge sa-

17 rbba-namasyam mattaru panneradu tōmṭa mattar=omdu Dadigarasana kayyalu māru-goṇdu dēvargge kot[ta]

18 bhūmi Kappadiya kereyim temka manneya-v[o]ladalu sarvva-namasya mattaru 50 [||*]

19 I(i) dharmmamam sva-dharmmadım rakshıshı(sı)davar Väranäsıyalu ondu köti kavileyu-

20 mam vēda-pālanar=appa br[ā*]hmanarīge koṭṭa pha[la]mam paḍevar I(1) dharmmaman=alīdava-

¹ From the ink-impression

The engraver has written ghata, and added fo in smaller script under the line,

Bead mattar.

TRANSLATION.

(Lines 1-4) While the victorious reign of—hail l—the asylum of the whole world, favourite of Fortune and Earth, great Emperor, supreme Lord, supreme Master, ornament of Satyaśraya's race, embellishment of the Chālukyas, king Trailōkyamalla, was advancing in a course of successively increasing prosperity, (to endure) as long as moon, sun, and stars —

(Innes 4-9.) Hail! she whose foot-lotuses are touched by the diadems of opponent kings, who is pure through bathing in the Ganges, a wishing-jewel to the distressed and masterless, uniform in speech, adorned with virtues, Akkā-dēvi, in the camp around the fortress of Gökāge, granted land for (the expenses of) plastering the broken and burst (masonry) of the Gonada-bedangi Jina temple at Vikramapura, and for (the supply of) scent, incense, and lamps, and for sarugi, and for the maintenance of Nāgasēna Pandita, (a friar) of the Hogariya Gachchha of the Varasēna Gana of the Mūla Sangha, and of the finars and nuns residing there and for the cloaks of the nuns—

(Lines 9-18) The lands given (by her) to the god, which she purchased of Dadigarasa, on Sunday, the new-moon day of Chaitra in the cyclic year Servvajit, the 969th (year) of the Saka era, on the occasion of an eclipse of the sun, with the performance of pouring of water, were · Gāṇada Hālūr, a town forming part of the Kisukādu Seventy, granted on sarva-namasya tenure, in its entirety,² with usufruct of the citizens (?), one mattar of garden on the north-east of Vikramapura, south of the town, on the south-west of the Muruvadu Waste-land, twelve mattar on sarva-namasya tenure for Paṇdita Nāgadēva; to the south thereof, twenty-four mattar on sarva-namasya tenure for the drummer Kētōja; north of the town, east of Rāyagatṭe, one mattar of garden for the drummer Kētōja; on the west thereof twelve mattar on sarva-namasya tenure (and) one mattar of garden for the stone-mason Sūrōja, (furthermore,) 50 mattar on sarva-namasya tenure in the estate of the seigniory south of the Kappadi tank.

(Lines 19-21 a prose formula of the usual type.)

(Lane 22 · the beginning of a common Sanskrit verse.)

No 11-THE BRAHMA-SIDDHANTA OF BRAHMAGUPTA (A.D 628)

Working Tables for computation of ancient dates by the true, or apparent, motions of sun and moon

BY ROBERT SCWELL (ICS, RETIRED)

A continuation of the author's "Indian Chronography"

311. In para 257 of my article on "The true longitude of the sun in Hindu astronomy, the Siddhānta-Sirōmani" (above, Vol. XIV, p 241), and again in a later article on The Siddhānta-Sirōmani, § 2711(Vol. XV, pp 159 sqq), I discussed the question of the values assigned in the seventh century A.D. by Brahmagupta to the twenty-four base-sines of angles in the quadrant, and expressed the opinion that when, but not until, definite assurance was obtainable that the values stated in the only available copies of the Brahma-Siddhānta were really those fixed by its author, working Tables framed according to its postulates might safely be prepared for the computation of ancient dates.

¹ This term occurs elsewhere, e g in Ep. Carn. II (Sravana Belgola), No 56, p 52.

² Literally, "one,"

One MS, copy in the India Office, London, and Benares printed edition

In response to my appeal Mi G R Kaye (Curator, Board of Education, Simla) has been kind enough to assist me. He tells me that there can be no doubt but that the values given for the several bise-sines in the edition of the Brahma-Siddhanta, printed and published in Benares, are correct, and that Bi immagupta certainly made his cilculations with a radius (sin 90°) of 3270′, discarding that of 3438′, which seemingly had been in use in India since the time of the Greeks ¹ Mi Kaye went fully into the subject in a very learned article, "Ancient Hindu Spherical Astronomy" published in the Journal of the Asiatic Society of Bengal in 1919 (New Series, Vol. XV, No. 3), which contains (Table 8, p. 187) a list of the sine values as determined by the authors of the Paulisa-, Arya-, and Brahma-Siddhāntas. He points out that, when properly applied, the equations of the sun's and moon's centres obtained from the sine-values of Brahmagupta agree with those derived from the values assigned by the other authorities

Accordingly I have prepared the Table of Brahmagupta's sines and resulting base-equations of the sun's centre (Table LXXXIX below), and a comparison between these and the equations of the Siddhānta-Širōmani (Table XLVII above, Vol XIV, col. 9, and Prof Jacobi's Tables, XXIVB above Vol I) proves that there is only a very trifling difference whether we use Brahmagupta's, or the older—and later—sine-values—By the Siddhānta-Širōmani, with radius 3438', the sun's greatest equation—that of 90°, =2° 10' 31", exact—By the Brahma-Siddhānta, with radius 3270', it=2° 10-31" 19—We may therefore safely use Table LXXXIX (below)² and Table LIX (above, Vol XI) for the sun's and moon's equations by the Brahma-Siddhānta

312 The Brahma-Siddhāntu was composed by Brahmagupta in A D 628 and is said to have been extensively used in some parts of India, its principal rival being the Ārya-Siddhāntu of Ārya-batā, known in later years as the Laghu-Ārya to distinguish it from the Mahā-Ārya-Sidhāntu of the tenth century. This last, called also the Second Ārya-Siddhāntu, seems to have had no great following. The Rājamrigānha, an astronomical work of A D 1042 introduced, according to the information available to the late Sankara Bālkirshua Dikshit, some important changes into the system of Brahmagupta, but unfortunately no complete copy of it has yet been obtained, and the necessary particulars are not to be found in those fragments which have come to light. It is not possible therefore to frame any accurate Tables for calculation by the Rājamrigānha, and we must rest satisfied with the assurance of Mr S B Dikshitā that the Siddhānta-Šīrōmanī is the same as the Rājamrigānha in the matter of calculation of a paāchāng. Tables for use by the former have already been published by me, comprising the period A D 1100-1750 (abore, Vol. XV)

All the authorities appear to arrive at similar or almost similar results in their computation of the lunar tithis, when worked by the true of apparent motions of sun and moon, but, since they differ in their estimate of the position of the sun's apsis at a given date, they necessarily differ somewhat in their estimate of the moment in each year when the true sun reaches long 0°, the moment, that is, of "true Mēsha-samkrānti" This difference leads to differences in the lengths of the true solar months, and consequently to differences in the intercalation and suppression of true lunar months, which differences, again, occasionally cause differences of a whole lunar month in the beginning of the luni-solar year and differences in the names of some of the lunar months therein

¹ It would be interesting to learn his reason for the change Later Indian astronomers reverted to the radius of 3438′, which is correct With $\pi=3$ 14159 the radius=3437 74967 Brahmagupta's radius 3270 implies a ratio $\pi=3$ 303 The ratio according to Archimedes (B C 250) was 3 14286 The ratio 1 √10 mentioned in the

² Or Table XLVII (above, Vol XIV), col 9, also Professor Jacchi's Tables XXIVA, XXIVB (Vol. 4).

But we are now better able to deal with these matters than before Dates can be easily computed by the true motions of sun and moon according to the Sūrya-Siddhānta for the whole historical period from A D 300 to 1900 (Indian Calendar)¹, according to the Arya-Siddhānta from A D. 900 downwards (abore, Vol XVI), according to the Brahma-Siddhānta (the present paper) from A D 600 to 1200, and according to the Siddhānta-Šīrōmani, Rājamrīgānka and other works of the time of Bhāskarāchārya from A D 1100 to 1750 (above, Vol XV), these periods comprising the outside limits of use.

And, as regards computation by the mean motions of sun and moon, which system is believed to have been in universal use down to about AD 1100, and perhaps in some places to a considerably later date, we now have Tables for work by the Arya-Siddhānta from AD 500 to 1400 (above, Vol XVII), while I hope to be able to publish here after a set of similar Tables for the Brahma-Siddhānta, also embracing the outside period of use

All these Tables are framed on the same system, so as to enable calculation to be made as easily and rapidly as possible

Elements of the Brahma-Siddhanta

- 313 (1) The length of the mean solar sidereal year is 365 2584375 days, or 365d 6h 12m 9s The Siddhanta-Siroman adhered to this estimate
- (11) Brahmagupta's sines of angles of the quadrant differ from those of the other authorities. His sine of 90°, the radius, = 3270′ instead of 3438′. His sine of 3° 45′ = 214′ instead of 225′. The 24 base-sines are given in Table LXXXIX below.
- (111) The equations, however, which are based on these sine-values are practically the same as those of the Siddhānta-Šīrōmani (compare Table XLVII above, Vol XIV, col 9, and Table LXXXIX below) Tables LV, LVI, LIX (above, Vol XV) may be therefore used as well for the Brahma-Siddhānta as for the Siddhānta-Šīrōmani
- (1v) The greatest equation of the sun's centre, that of 90°, 1s, in 10,000ths of the circle, 60 425925 The greatest equation of the moon's centre is, in similar measurement, 139 858101852 The sum of the two is 200 284027.
- (v) The epoch of the Kaliyuga era was mean sunrise, taken as 6 Am, on Friday, 18 February, BC 3102, that moment being 0^h 0^m 0^s Lankā time. This was the moment of mean Mēsha-samkrānti, when the mean sun's centre reached long. 0° Time Mēsha-samkrānti, when the true sun's centre reached long 0°, occurred on Tuesday, 15 February, BC. 3102, at 19^h 52^m 21^s 5 after mean sunrise at Lankā
- (vi) The circumference of the sun's epicycle is 13° 40′, that of the moon 31° 46′ The epicycles are not contracted at any point. In this the Siddhānta-Širōmani concurs (Jacobi, Vol I above, p 441)
- (v11) The line of apsides of the sun's orbit has a constant forward shift, the perigee-point (on the longitude of which my calculations are based) moving 0" 144 per ann, or 14" 4 in a century According to the Siddhānta-Širōmani the movement is more rapid, amounting to 1" 044 per ann (Jacobi, op. cit).
- (viii) The sodhya, or time-interval between true and mean Mesha-samkrantis, was, in K.Y 0 or at the epoch of the Kaliyuga era, according to Dr Schram, 2 2d 171971 or 2d 4h 7m 38°5 With this the Siddhanta-Śirōmani agrees But in later years the śōdhya, as postulated by the two authorities, differs in value owing to the difference between the two Siddhantas in their estimate of the movement of the sun's apsis (See vii above)

¹ Also by the Indian Chronology of Dowan Bahadur L D Swamikanun Pillai, MA, whose Tables are framed on a different system

² Indian Chronogiaphy, § 39 D, p 16

- (ix) The position of the sun's apsis (perigee) at K.Y 0, the epoch of the Kaliyuga, was 257° 45′ 36″,¹ and his mean anomaly was 102° 14′ 24″, or, in 10,000ths of the circle, 284 0
- (x) The position of the moon's apsis (perigee) at the same moment was 305° 29′ 46° 2; and her mean anom. was 54° 30′ 14″, or, in 1,000ths of circle, 151 399691358
- (x1) The sun's mean velocity (he is treated as a planet) and the length of the mean solar year being the same both by the Brahma-Siddhānta and the Siddhānta-Śirōmani, his mean long, at any moment must be the same by both, and so also the length of the mean solar month. But the two authorities are not in exact accord as to his true long and the length of the true solar month

Shift of sun's apsis The śodhya Length of truc solar year

314 The length of the mean solar year being the same, viz 365d Gh 12m 9s, by both the Brahma-Siddhānta and the Siddhānta-Śirōman, the first portion of § 273 above (Vol XV) and accompanying Table A apply as well to the former as to the latter. But for the latter portion that section and its Table B, the following must be substituted when dealing with the Brahma-Siddhānta, the two authorities not being in accord as concerns the matter in question

315 As stated above, the sun's perigee-point according to the Brahma-Siddhānta advances annually 0"144 along the ecliptic, and in consequence of this shift the true sun's velocity at long 0" is a little greater every year than the year before, i.e. the true sun reaches long. 0°, or the moment of true Mēsha-samkrānti occurs, a little earlier each year. In every year there is a slight increase in the distance and time-difference (our \$\sigmid d d hya) between the mean and true suns at that point of the orbit. Di Schram has carefully calculated the value of this \$\sigmid d d hya at the moment of true Mēsha-samkrānti at the beginning of several millenniums, and his results for the period embraced in my general working Table LXXXII are stated in the following Table B

TABLE B
VALUE OF SODHYA BY THE BRAHMA-SIDDHANTA

KY year			LUE OF ÉÖDHYA AT G OF CENTURIFS
expired	A.D.	days and decimals.	dhm s
8700	599-600	2 1729145	2 4 8 59 8128
8800	699-700	2 1729400	2 4 9 20160
8900	799 800	2 1729655	2 4 9 4 2192
4000	899 900	2 1729910	2 4 9 64224
4100	999 1000	2 1780165	2 4 9 8 6256
4200	1099-1100	2 1730420	2 4 9 10 8288
4300	1199 1200	2 1730675	2 4 9 13 0320

One result of this shift of apsis is that, by the Brahma-Siddhanta, the true sun reaches the 0° point of long. 0° 022032 earlier every year than the year before, and in consequence the length of the true solar year, or the time needed for the true sun to travel from true Měsha-samkrānti

I Jacobi, abore, Vol I, p 442, § 83, where he gives the place of the apsis (apogee) as 77° 45′ 36°. See also E.

² Moon's apogee given by Jacobi as 125° 29' 46".

in one year to true Mēsha-samkrānti in the next, is (365d 6h 12m 9s-0s 022032) 365d 6h 12m 8s 977968 [The exact moment of true Mēsha-samkrānti in each year from A D 599 to 1200 is given in the general Table LXXXII below, cols 13-17. It can be tested by the use of Table A, § 273, referred to above, and Table B here given, using the "longer rule" stated in § 273 or in Indian Chronography, p 61]

Another result of the shift is that the sun's mean anomaly, or the mean sun's distance from the sun's perigee-point, decreases every year by 0' 144 or 14' 4 in a century Reckoning in 1,000ths of circle for valuation of our c (sun's mean anom) in the Tables, 14'' 4 = 0.01. The value of c therefore decreases 0.01 in a century, and this decrease has to be taken into account from K.Y. 0, the epoch of the Kaliyuga. This has been done in the preparation of the Tables which follow

The increase of a, b, c, in centuries, years, days and fractions of days.

316 Following on what has been stated, we learn that Tables LIVA and B, which deal with the periodical increases of a, b and c according to the Siddhānta-Širōmani, may safely be used for calculation by the Brahma-Siddhānta, with the one reservation as to the increase of c in a century a being the distance of mean moon from mean sun, and the longitude of the mean sun not being affected by the shift of apsis, but only his mean anom, or distance from the point of the apsis, it appears that the rate of increase of a must be same by both authorities.

As to the rate of increase of c it is, by the $Siddh\bar{a}nta-Sir\bar{o}mani$, centennially less by 0 0805 (§ 273 above), and this was taken into account in the preparation of the heading of Table LIVA, where a footnote is appended shewing what the rate of increase would be per century if no such deduction had been made. This rate is, in thousandths of a circle, 997 690008075 in a century of 36525 days, and 0 427795618 in a century of 36526 days. By the $Brahma-Siddh\bar{a}nta$, the centennial decrease in the sun's mean anomaly being 0 01, the amount of increase of c per century is, for a century of 36525 days, 997 678896964, and for a century of 36526 days is 0 416684507. The difference between the two authorities in shorter periods may be ignored except in some extraordinarily close case. If it is ever needed, the increase in c in one year may be reduced by 0 0001 from the Table quantity

Otherwise Tables LIVA and B stand good for calculations by the Brahma-Siddhanta.

The values of a, b, c at the beginning of KY 3700

- 317 The general Table LXXXII below begins from the beginning of KY 3700 expired. Table LXXXVI states the value of a, b, c at that moment, and at the similar moment at the beginning of subsequent centuries. It is necessary therefore to explain how these figures were calculated.
- (1) The value of a (distance of mean moon from mean sun) in KY 3700. According to Hindu astronomers mean moon and mean sun were in conjunction at the moment of mean Meshasamkränti in K.Y 0, the epoch of the Kaliyaga, or, in other words, at that moment a=0 In the 37 succeeding centuries there were 32 common and 5 defective centuries. Taking the century values of a given in the heading of Table LIVA and multiplying for 32 common and 5 defective centuries, we arrive at the figure 6567 108945284 as the value of a at the beginning of the 37th century KY., whole revolutions of 10,000 each being omitted. From this figure has to be deducted,—according to the working system of the Indian Calendar, which follows Largetean and Jacobi,—the sum of the greatest equations of sun and moon, viz 200 284027 (above § 313, iv) This gives us the value of a at the beginning of KY 3700 (expired) as 6366 824917506 1
- 1 Professor Jacobi differs by about 17 units He gives the figure 63840 (Vol XI alore, p 167, Table (IXA) I can give no explanation of the reason for this, and can only state fully, as in the text, my bases of calculation.

Now this value stands for mean sunrise of Sanday, 22 March, AD 599, 1 c. for the kunrise succeeding the moment of occurrence of mean Mishi-simkianti in KY 3700, but in all my Tables the calculation is for mean sunrise on the actual day of that occurrence, and we have therefore to deduct one day's value of a (112 333 631985412-Table LIVA above) from the This done, we have, for mean sumise on Saturday, a = 6028 192932094above estimate

- (n) The value of b (moon's mean anom) at the same moment. At the epoch of the Kaliyuga the moon's mean anom was, as stated above (§ 115 x), in 1,000ths of a circle 151 399691358 Using the century figures of b in the heading of Table LIVA, and multiplying for 32 common and 5 defective centuries, it is found that, excluding whole revolutions of 1,000 each, the result is 604 144838202 Adding the value of b at KY 0, as above, we have at beginning of K.Y 3700, for the value of b, 755 514529560 1 But this (see about, t) was its value at mean sunrise on Sunday, 22 March, A D 599 Deducting one day's value of b (36 291649786) the fixture for mean sunrise on Situiday, 21 March, amounts to 719 252579771
- (111) The value of c (the sun's mean anom) at the same moment The correct merease of c by the Brahma-Siddhanta in centuries of 36525 and 36526 days his been given above in the Multiplying those quantities for 32 common and 5 defective centuries, and latter part of § 316 discarding whole revolutions of 1,000 each, we arrive at the increase, after 37 centuries, of 1728389014 To this has to be added the value of at KY 0 (abore, § 313, 17), 112 254 0 The value of c, therefore, at mean sunrise of Sunday 22 Much, A D 500, was 285 7285801142 Deducting the c for one day (2737787543) we have finally, for mean summe on Saturday. 21 March, c=282 990601501

The entries, therefore, for the aforesaid Saturday of KY 3700 in Table LXXXVI below are

> a = 6028 1929b = 7192529c = 2829906

The rest of that Table follows by addition of the proper century values

Duration of true solar months

318 It has been mentioned above (§ 313, x1) that, while the length of the mean solar month must be the same both by the Brahma-Siddhanta and the Siddhanta-Širomani, the lengths of the true solar months according to the two authorities differ because of their different estimate of the shift of the sun's apsis Thus in KY 4000, the middle year of my general Table LXXXII below, the sun's perigee-point according to the Siddhanta-Siromam was at long 258° 55' 12", while by the Brahma-Suddhanta it was at long 257' 55' 12' Hence the velocity of the true sun (he is always considered as a planet) at the several true solar samkranis, when the true sun's centre enters the several signs, is not the same by the two authorities quoted And this has necessitated the preparation of a new Tuble (LXXXIII.1 below), giving the lengths of the true solar months and increase of a, b, c therein individually and collectively according to the Bruhma-Siddhanta

There being in KY 4900 a difference of only 1'48' between the positions of the sun's perigee, as estimated by the Brahma-Siddhanta and by the First Arya-Siddhanta, the former placing it at 257° 55' 12" and the latter at 258°, it was considered sufficiently safe to use Table XLIX (above, Vol XIV) for the true sun's velocity at different points of his orbit in hours and minutes, and Table L-A for seconds His true long at each samkrants was computed from his known mern longitude + the equation of the centre, which was calculated in each case

¹ Professor Jacobi's figure for this is 758 1, in my notation, against my 755 5

This agrees with Professor Jacobi's fixture, which, measured from per geo and in my notation, is 2857.

Thus was obtained the length of each month in days, hours, etc. For the increase of a, b, c during the periods so determined Tables LIVA and B, which are applicable to the Brahma-Biddhānta as well as to the Śiddhānta-Śirōman, were used.

Note on work for the nakshatra

319. In our method of work s = the true sun's longitude and <math>t = the tithi-index (which shews the true moon's distance from the true sun) at the given moment s + t = the nakshatra-index n, which gives the true moon's place in the heavens, or her apparent longitude. The value of t is ascertained by the ordinary calculation for a date. The value of s has to be found.

By the Arya-Siddhānta the formula for finding s, c being the sun's mean anom, at the given moment, is $s = (c \times 10) + 7226$ —eqn. c, where the factor 7226, which represents in 10,000ths of circle the long of sun's perigee plus the sun's greatest equation, is a constant 1

By the Sūrya-Siddhūnta, as exemplified in the Indian Calendar Tables, the numerical factor is not 7226, but varies in the period A.D 900 to 1900 from 7206 5077 to 7207 4035 being fixed for rough work at 7207. The variation is due to the postulated shift of the sun's perigee-point.

By the Siddhanta-Siromani there is, for the same reason, a variation in the numerical factor, viz. from 7252 6466 in A.D. 900 to 7259.0910 in A.D. 1700,—roughly from 7253 to 7259.

By the Brahma-Siddhänta the numerical factor varies from 7224 5370 in A D. 600 to 7225-2037 in A D. 1200 (the limits of the general Table LXXXII below) For rough work therefore by this authority the formula is $s = (c \times 10) + 7225 - eqn c$

For more accurate work the value of c should be calculated (by the Tables) with decimals and instead of multiplying c by 10 its value should be changed from thousandths of circle (as in the Table-result) to ten thousandths by moving the decimal point one place to the right?; the value of eqn c can be obtained from Table LiVI with great accuracy, [and the numerical factor can be taken from the following summary.

K.Y century.	A D contury	Exact factor in formula	Roughly.
8700	599 600	7224-5870	1
8800	699-700	7224-6481	
3900	799-800	7224 7592	
4000	899 900	7224-8703	7225
4100	999-1000	7224 9814	
4200	1099-1100	7225-0925	
4300	1199-1200	7225 2037	IJ

Examples.

It is not necessary to give a number of examples of work by the present Tables The system of calculation being exactly the same as that of the *Indian Calendar* and throughout the resent series of articles, the examples already published for computation by other authorities

2 Whole revolutions are not necessary for present purposes, and in our system when a=10,000 a whole synodic

revolution of the mean moon has been completed

¹ See Indian Culendar, § 156 p 97, article on the Siddhanta-Śiromani, above, Vol XV, § 273, Wote on work for the nakshatra ", article on the First Arya-Śiddhanta, Vol XV above, § 302, and the several examples given in those papers

will suffice, the proper Tables being used, for work by the Brahma-Siddhanta. These Tables are specified in the following pages.

Examples have been given in all my foregoing papers, but perhaps the fullest series is to be found in the article on the First Arya-Siddhanta (above, Vol XVI).

Tables for calculation by the Brahma-Siddhanta

The system of work for computation of an Indian date will be readily understood by perusal of examples 2 to 11 appended to my paper (above, Vol XVI) on the First Arya-Siddhanta, but the Tables used are of course not all the same The following list shows how accurate results by the Brahma-Siddhanta are to be obtained in calculation by the movements of true sun and trne moon

Table LXXXII below is the general working Table for the Brahma-Siddhanta for the period A D 599 to 1200 (K Y. 3700 to 4300 expired).

For names of months and of nakshatras in different parts of India, see Table LXII above (Vol XVI, "The First Arya-Siddhanta").

For collective duration of mean lunar months see Table LXIIIA of the same article, or Table III, Part I, Indian Calendar

Table LXXXIIIA below gives, by the Brahma-Siddhanta, the length of the true solar months and their collective duration, with the corresponding increases of a, b, c

Table LXXXIIIB states the exact value of c and of "equation c" at the several true samkrāntis, or moments of the true sun's centre reaching the several signs

Table LXXXIIIC shews the value of c and of "equation c" at the beginning of each century of the Kahyuga

For the increase of a, b, c respectively in defective and common centuries, and in common years and Leap-years, see Table LIVA, heading, but note that by the Brahma-Siddhanta the increase of c in a defective century of 36525 days is 997 678896964 and in a common century of 36526 days is 0416684507 Tables LIVA and B contain the necessary figures for days, hours, minutes and seconds

Table LXXXIV gives the values of "equation h," and Table LXXXV those of "equation c," for easy calculation by whole numbers, corresponding respectively to Tables VI and VII of the "Indian C.lendar," which stand for the Sürya-Siddhanta

For the more detailed values of "equation b" and "equation c" of moon and sun use Tubles LV and LVI above, Vol XV, as framed for the Siddhauta-Siromani

For the indices of tithis (t), karanas, yogas (y) and nalshatras (n) see Table VIII, "Indian Calendar," or Table LXVIII (above, Vol XVI, "The First Arya-Siddhanta")

For serial numbers of days of a year reckoned from January 1st use Table IX, "Indian Calendar," or Table LXIX (above, Vol XVI, "The First Arya-Siddhan'a")

For conversion of tithi-indices and tithi-parts into time Table X, "Indian Calendar," is to be used, or Table LXX (above, Vol XVI, "The First Arya-Siddhanta")

For finding the week-day according to the European Calendar for any century from A D. 0 to 2300 see Table LXXI (above, Vol XIV, "The First Arya-Siddhanta"), or Tables XLIA and B (pp 176, 177, "Indian Chronography")

Table LXXXVI gives the values of a, b, c at the beginning of each century of the Kahyuga by the Brahma-Siddhanta

Table LXXXVII gives the same for odd years of those centuries

Table LXXXVIII states the daily sunrise values of a, b, c for a month previous to the day of Mēsha-samkrānti

Table LXXXIX sets forth the 24 base-sines of angles of the quadrant according to Brahmagupts, and the corresponding equations of the sun s centre

TABLE LXXXII

CONSTRUCTION OF TABLE

The Table is constructed on the lines of Table I of the Indian Calendar and is to be used in the same way The columns are numbered similarly.

- Col 7. The satiratsara-name,—ie the name of the Jovian cycle—, of the year is given as determined by my previous calculations (above, Vol XIII Iable XLII) Entires in italics point to cases where this samuatsara-name differs from that given to the same year by Sūrya-Siddhānta reckoning.
- Col 8. Months noted in 10man characters are intercalated (adhika) lunar months. Those in italics are suppressed (kshaya) months.
- Cols 13, 19. Figures in brackets give the serial number of the day [measured from January 1st.
- Col 23 a=distance, at mean sunrise, of mean moon from mean sun, or phase of moon stated in 10,000ths of circle, and reduced by the sum of the greatest equations of sun and moon so that calculation of the equations of b and c may always be additive.
- Col. 24 b=mean anomaly of moon or mean moon's distance from perigee-point of apsis stated in 1,000ths of circle
- Col. 25 c=mean anomaly of sun or mean sun's distance from perigee, stated in 1,000ths of circle.

Remarks 0 127 cmc

A.D 629-630, rols. 19, 20 A very close case The moment of true new moon was less than half a minute after mean sunrise at Lanka ou Wednesday, 1st Murch | And the first tikela tith of the year ended after mean sunrise on Thursday, 2nd March, which was therefore by rule the first civil day of the lum-solar year. If new moon had taken place more than half a minute earlier the first civil day of the year, "Chaitia sukla 1," would have been 1st March [1775]

A D 968-69, col 8 At the Kumbha samkrānte the true moon was waning. The moment of the next, the Mina, samkrānte occurred about 2 minutes after the moment of true new moon, so that the true moon was waxing at the Mina samkrānte Hence the lunar month Phälguna was intercalated According to the 19-year sequence we should have expected an intercalation of the lunar month Chaitia next following. The sequence shows similar irregularities when examined by other authorities, but only very rarely

A.D 974-75, cols 19, 20 Close case The 1st true new moon after the Mina samhiā.i/2 occurred 3 minutes before mean sunrise at Lankā on 25th February A D 974. That therefore was the day "Chaitra sukla 1."

A D 963-64, 982-83, col 8 In both these years an intercalation of the lunar month Śrāvana instead of Āshādha would have been more in accordance with the 19-year sequence, seeing that Śrāvana was the intercalated month in A D 1001 and 1020, but prior to "A"D 963 at intervals of 19 years there had been eight intercalations of Śrāvana, and towards, the close of such a ran a change of conditions generally becomes apparent

A D. 1001-2, 1020-21, col 8 See the previous note If in these two years the conditions had made necessary an intercalation of Ashādha, the 19-year sequence would have been unlifter-rupted

A.D 1128-29, col 8 By the Brahma-Siddhanta the intercalcular of Phalguna vas clearly demanded See Remarks preceding Table LX (above, Vol XV), on the same year as worked by the Siddhanta-Siromani.

TABLE

GENERAL TABLE FOR CALCULATION

Conforming to Table I " Indian Calendar"

(See notes on

		====				(CONC	URRENT	YEAR			
			งเมษ		e year				Jovian Sab	IVATSARA		Intercalated (adhika) and suppressed
Kalı	Sa	La.	Chaitradi Vikrama		Meshadi solar ın Bongal	Kol	lam	A D	Southern system	Northern system		(kshaya) true lunar months
1	1-	2	1	3	3a		4	5	6	7		8
3701 3702 3703	1	522 523 524		357 858 659		3 7 8		599 600 *600 01 601 02	51 Pu			3 Jyështha
3701	- 1	52	1	660		9		602 03		idhārthin .		7 Aśvina
370	I	52	1	661	١.	10		603 04			{	1 Māgha (ksh) 1 1 Chastra
370	i	52	1	662	1	ıı		*604 0		urmatı	ļ	1 Chaitra
370		52	- 1	663	1	12		605 0		undubhi		5 Śrāvana
370)3	5:		664		13		600 0		udhirödgärin		o pravana .
370	23	5:	30	668	1	14		607-0	1	aktālsha	ł	
37	10	5	31	60	5	15		*608 0		rodhana	ŀ	4 Āshādha .
37	11	5	32	66	7	16		600 1		shaya .		* Manaqua
37	112	5	33	66	3	17		610	1	rabhava .		
37	13		34	60	;o	18		611-	12 2 7	71bhava		2 Vaišākha
3:	716		135	C	0	10		*612-	13 3 5	iukla		
3	71%	1	636	C.	71	20		613	14 51	Pramôda		6 Bhādrapada
3	715		537	C	72	21		614	15 61	Prajapati		
	17 [7	1	FCZ	1	73	22		615	16 6	Angirasa .		
	3719	1	537	1	574	23		*616	17	Srīmakha	•	4 Āshādha -
	271	1	240	1	673	24		617	18 8	Bbāva .		
	373	1	5()	1	676	25	1	618	19 9	Yuvan		
	37:		E4:	ł	622	25	1	619	1-20	Dhātņ .		3 Jycshtha .
عد	37:	=	ધ	3	C7:=	27		•62)-21	Iśvara .	•	

LXXXII.

BY THE BRAHMA-SIDDHANTA

the columns being similarly numbered preceding page)

			COI	MME	NCEMENT OF	THE				
	Solar Year				LUMI-SOLAR	year (mean Chaitra	SUNRISE OF SURLA 1 EN	CIVIL DAY (ON WHICH	
Day and nonth A D	Week- day	Mcs	e of the seranti	m-	Day and month A D	Week- day	а	δ	c	Kalı
13	14		17		19	20	23	24	25	1
·····		H	M	s			-		1	
19 Mar (78)	5 Thur	1	6	0	3 Mar (62)	3 Tues	9932 8171	66 0032	233 7104	3701
18 Mar (78)	6 Fri	7	18	8	21 Feb (52)	1 Sun	147 1720	949 5390	205 6250	370
18 Mar (77)	0 Sat .	13	30	18	11 Mar (70)	0 Sat	181 8544	885 5324	256 9354	3703
18 Mar (77)	1 Sun	19	42	27	28 Feb (59)	4 Wed	57 5772	732 7768	226 1121	3704
19 Mar (78)	3 Tues	1	54	36	18 Fcb (49)	2 Mon	271 9320	616 3122	203 5023	3705
18 Mar (78)	4 Wed	8	6	45	7 Mar (67)	0 Sat	9967 9825	516 0140	246 5994	3708
18 Mar (77)	5 Thur	14	18	54	24 Feb (55)	4 Wed	9843 7052	363 2681	215 7762	3707
18 Mar (77	6 Fri .	20	31	3	15 Mar (74)	3 Tues	9878 3876	299 1516	267 0865	3708
19 Mar (78	1 Sun	2	43	12	4 Mar (63)	0 Sat .	9754 1105	146 4956	236 2624	3709
18 Mar (78	2 Mon	8	55	21	22 Feb (53)	5 Thur	9968 4653	30 0312	208 1780	3710
18 Mar (77	3 Tues	15	7	30	12 Mar (71)	4 Wed	3 1477	966 0247	259 4884	3711
18 Mar (77	4 Wed.	21	19	39	2 Mar (61)	2 Mon	217 5025	849 5604	231 4029	3712
19 Mar (78) 6 Fr1	3	31	48	19 Feb (50)	6 Fr	93 2254	696 8045	200 5797	3713
18 Mar (78) O Sat	9	43	57	9 Mar (69)	5 Thur	127 9077	632 7980	251 8902	3714
18 Mar (77) I Sun	15	56	6	26 Feb (57)	2 Mon	3 6306	480 0421	221 0869	3715
18 Mar (77) 2 Mon	22	8	15	16 Mar (75)	0 Sat	9999 6810	379 7440	269 6395	3716
19 Mar. (78) 4 Wed	4	20	24	6 Mar (65)	5 Thus	9914 0358	263 2795	241 5542	3717
18 Mar (78	1	10	32	33	23 Feb (54)	2 Mon	9789 7587	110 5236	210 7310	3718
18 Mar (77) 6 Fr	16	44	42	13 Mar (72)	1 Sun	9824 4420	46 5171	262 0414	3710
18 Mar (77) O Sat	22	56	51	3 Mar (62)	6 Fr:	38 7959	930 0528	233 9559	3723
19 Mar (78	2 Mon	5	9	0	21 Feb (52)	4 Wed	253 1507	813 5885	205 8705	3721
18 Mar (78	3 Tues	111	21	9	11 Mar (71)	3 Tues	287 8331	749 5820	257 1810	3722

	T									·	
	-1				RENT YEA	ONCURI	C				
Intercalated (adhika) and suppressed (Lshaya) true			VATSARA	Jovian Sab				year	ramo.		
unar months	1		North system	Southern system	A D	llam	In Bengal	Möshädı solar	Chaitrādi Vikramo.	Saka	Kab
8	_ -		7	6	5	4	3a		3	2	-
7 Āśvina .		•	dhānya	12 Bahu	621-22		28	-	67	544	3723
••	\cdot	•	āthın .	13 Pran	622-23	1	29	80	1	515	3724
	\cdot	•	ama .	14 Vikr	623 24	1	30	381		548	3725
5 Śrāvaņa .	1	•	1 a •	15 Vris	*624 25		31	682	1	547	3726
••		•	abhānu	16 Chit	625 26	}	32	683	8 6	548	3727
••		•	iānu •	17 Subl	626 27	1	33	684	9 e	519	3728
4 Āshādha .	\cdot	•	ņa .	18 Tāra	627-28	}	34	695	0 0	550	3721
•		•	hrva .	19 Pāri	*628-29		35	686	51	55	378
•	\cdot	•	ya •	20 Vya	629 30		36	687	52	1 55	313
2 Vaišākha .	-	•	rajit .	21 Sar	630 31		37	638	53	≃ 55	373
•	\cdot	•	adhärın	22 Sar	631 32		38	689	54	3 55	373
6 Bhādrapada		•	idhin .	23 Vir	•632 33		89	690	55	14 E	31
••	\cdot	•	rita .	24 V1k	633 34		40	691	558	35 E	37
•	\cdot	•	ara .	25 Kh	634-35		41	692	557	36 6	27
4 Āshādha .		•	ndana	26 Na:	635 36		42	693	259	77 8	31
	\cdot	•	aya .	27 V13	*636 37		43	694	623	1	
•	•	•	_	28 Jay	637-38		1	l	ern	į	
3 Jyështha •	•	•	nmatha .		638 39		1	ŧ	esi	1	
•	•	•	rmukha .		G39 40	1	1	;	262	- 1	
7 Āśvina •	•	•	malamba		*610 4	}	1	(1/3		
•	•	•		32 Vi	641-4	1	į.	1	273	3	
r 6.2		•		33 Vi	612 4 643 4	1	1	į	27	Į.	
5 Śrāvaņa •	•	•	rvarin .		•644-4	1	1	1	257	3145 ·	
		•	bhakrit .	35 Pi 38 Št	645-4	1	1			. 1	

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				COM	MENCEMENT	OF THE				1
	Solab yeai	R			LUNI SOLAT	YEAR (MEA CHAIT	n sunrise o Ra śukla 1	r civil day Ends)	on which	
Day and month A D	Week- day	Mi	oe of sha s krant		Day and month A D	Week- day	a	ь	c	Kali
13	14	\vdash	17		19	20	23	24	25	1
18 Mar (77)	4 Wed	H 17	M 33	S 18	28 Feb (59)	0 Sat.	163 5560	590 8261	226 3577	3723
18 Mar (77)	5 Thur	23	45	27	18 Mar (77)	5 Thur.	9859 6063	496 5279	274 9303	3724
19 Mar (78)	0 Sat	5	57	36	8 Mar (67)	3 Tues	73 9612	380 0635	246 8449	3725
18 Mar (78)	1 Sun .	12	Ð	45	25 Feb (56)	0 Sat	9949 6840	227 3076	216 0218	3726
18 Mar (77)	2 Mon	18	21	54	15 Mar (74)	6 Fri	9084 3664	163 3011	267 3321	3727
19 Mar (78)	4 Wed	0	34	3	4 Mar (63)	3 Tues	9860 0892	10 5451	236 5089	3728
19 Mar (78)	5 Thur	6	46	12	22 Feb (53)	1 Sun .	74 4441	894 0800	208 4235	3729
18 Mar (78)	6 Fri	12	58	21	12 Mar (72)	0 Sat	109 1265	830 0742	259 7340	3730
18 Mar (77)	0 Sat .	19	10	30	2 Mar (61)	5 Thur ††	323 4813	713 6100	231 6485	3731
19 Mar (78)	2 Mon	,	22	39	19 Feb (50)	2 Mon	199 2041	560 8540	200 8252	3732
19 Mar (78)	3 Tues	7	34	47	9 Mar (68)	0 Sat	9895 2545	461 5558	249-3979	3733
18 Mar (78)	4 Wed	13	46	56	26 Feb (57)	4 Wed	9770-9774	307 7999	218 5748	3734
18 Mar (77)	5 Thur	19	59	5	16 Mar (75)	3 Tues	9805 6597	243 7934	269 8851	3735
19 Mar (78)	0 Sat	2	11	14	6 Mar (65)	1 Sun .	20 0146	127 3290	241 0922	3736
19 Mar (78)	1 Sun	8	23	23	23 Feb (54)	5 Thur	9895 7375	974 5731	210 9765	3 737
18 Mar (78)	2 Mon	14	35	32	13 Mar (73)	4 Wed	9930 4199	910 5666	262 2870	3738
18 Mar (77)	3 Tues	20	47	41	3 Mar (62)	2 Mon	144 7746	794 1023	234 2015	3739
19 Mar (78)	5 Thur	2	59	50	20 Feb (51)	6 Frı	20-4975	641 3463	203 3783	3740
19 Mar (78)	6 Fr	9	11	59	11 Mar (70)	5 Thur	<i>5</i> 5 1799	577 3398	254 6887	3741
18 Mar (78)	0 Sat .	15	24	8	28 Fcb (59)	2 Mon	9930 9027	424 5838	223 8655	3742
18 Mar (77)	1 Sun	21	36	17	18 Mar (77)	1 Sun	9965 5851	360 5774	275 1759	3743
19 Mar (78)	3 Tues	3	48	26	7 Mar (66)	5 Thur	9841 3081	207 8213	244 3527	3744
19 Mar (78)	4 Wed	10	0	35	25 Feb (56)	3 Tues	55 6628	91 3571	216 2673	3745
18 Mar (78)	5 Thur	16	12	44	15 Mar (75)	2 Mon	90 3451	27 3506	1	3746
18 Mar (77)	6 Fri	22	24	53	4 Mar (63)	6 Frı	9966 0680	873 8747	236 7545	3747

^{††} See "Remarks," above, on page preceding the Table.

				CO	NCUI	RRENT YE	CAR.	***************************************		
Halı.	Sala	Chaitradi Vakrama	Mëshkdi solar yorr ın Bengal	Kol	lam	A. D	JOVIAN SAN	Northern system		Intercalated (adhika) and suppressed (kshaya) true lunar months.
1	2	3	3a	4		5	6	7		8
3748 3749 3750 3751 3753 3754 375 375 375 375	572 573 574 5 576 6 577 57 57 58 57 59 57	70 70 70 70 70 70 70 70 70 70 70 70 70 7	5	3		646 47 647-48 *648-49 649-50 650 51 651-52 *652-53 653 54 654 55 655 56 *656 57 657 58	37 Šōbh 38 Krōd 39 Viśvi 41 Plav 42 Kīla 43 Saus 44 Sādi 45 Viri 46 Par 47 Pra 48 Āng	ana lhin anga laa laarana idhāvin mūdin anda		4 Āshāḍha 2 Vaišākha 6 Bhādrapada 4 Āshādha 3 Jyēshtha
27 27		42	717	67		659 66 •660 6	0. 1.11	gala layukta		7 Āśvina .
2.	767 (554	710	69		661 6		dhārthin .		***
3	1	(4) (4)	720 721 722	70		662 6	54 Ra 55 Dr	udra .		5 Śrāvaņa
	ا مومة	Evra .	727	71 72		•661 6		ındubhı . ,		
		2-7	724	73		655-6		adhnōdgānn .	•	4 Āshādha
	בארב	4.24	727	76		687		aktāksha	•	•••
	1	173	7:15	~5		•005		rodhana shaya	• •	
	3-1	**2	77.7	**		exp		rabhava	• •	1 Chaitra
44	32	233 	- 9	77		670		ibhava .		5 Śrāvaņa

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				COI	IMENCEMENT	OF THE				
8	Solab Year	i.			Luki-solai		in slarist (ra śykla 1		OF MRICH	7
Day and month A D	Week- day.	MC	ne of the strint	arb-	Day and month A D	Week- day	a	b	c	Kalı
13	14		17		19	20	23	24	25	1
19 Mar (78)	1 Sun .	H 4	M. 37	8.	22 Feb (53)	4 Wed	180 4229	758 1223	208 6691	3748
19 Mar. (78)	2 Mon.	10	49	11	13 Mar. (72)	3 Tues	215 1032	694 1237	259 9795	
18 Mar. (78)	3 Tues	17	1	20	1 Mar (61)	0 Sat .	90 8281	541 3679	229 1662	3750
18 Mar. (77)	4 Wed	23	13	29	18 Feb (49)	4 Wed	9906 5700	388 6119	198 3330	3751
19 Mar (78)	6 Fn .	5	25	38	9 Mar. (68)	3 Tues	1 2333	324 6053	249 6435	3752
19 Mar (78)	O Sat	11	37	47	26 Feb (57)	0 Sat .	9876 9561	171 8494	218 8203	3753
18 Mar (78)	1 Sun .	17	49	56	16 Mar (76)	6 Fri	9911 6385	107 8429	270 1306	3754
19 Mar (78)	3 Tues.	0	2	5	6 Mar (65)	4 Wod	125 9934	991 3786	242 0453	3755
19 Mar (78)	4 Wed.	6	14	14	23 Feb (54)	1 Sun	1 7162	838 6227	211 2 2 21	3756
19 Mar. (78)	5 Thur	12	26	23	14 Mar (73)	O Sat	36 3986	774 6161	262 5325	3757
18 Mar (78)	6 Fri	18	38	32	3 Mar (63)	5 Thur	250 7534	658 1518	234 4470	3758
19 Mar. (78)	1 Sun.	0	50	41	20 Feb (51)	2 Mon.	126 5863	505 3958	203 6238	3759
19 Mar. (78)	2 Mon	7	2	50	10 Mar (69)	O Sat .	9822 5266	405 0977	252 1965	3760
19 Mar (78)	3 Tues .	13	14	59	28 Feb. (59)	5 Thur.	36 8815	288 6334	224 1110	3761
18 Mar. (78)	4 Wed.	19	27	8	17 Mar (77)	3 Tues.	9732 9319	188 3353	272 6836	3762
19 Mar. (78)	6 Fri.	1	39	17	7 Mar (66)	1 Sun .	9947 2867	71 8709	244 5982	3703
19 Mar (78)	0 Sat.	7		26	25 Feb (56)	6 Fri	161 6415	955 4066	216 5129	3764
19 Mar (78)	1 Sun.	14		35	16 Mar (75)	5 Thur	196 2239	891 4001	267 8232	3765
18 Mar. (78)	2 Mon	20		44	4 Mar (64)	2 Mon	72 0468	738 6441	237 0000	3746
19 Mar (78)	4 Wed.	2		53	21 Feb (52)	6 Fn .	9947 7698	585 8882	200 1768	3767
19 Mar (78)	5 Thur.	8	40	2	12 Mar (71)	5 Thur.	9982 6410	521 8617	257 4873	3768 3769
19 Mar (78)	6 Fri	14	52	11	1 Mar. (60)	2 Mon.	9858 1749	3C9 1257 216 3699	226 6640 195 8407	3770
18 Mar (78)	0 Sat	21		20	18 Feb. (49)	6 Fri .	9733 8977	152 5632	247 1512	3771
19 Mar. (78)	2 Mon 3 Tues.	3 9		29 38	8 Mar (67) 26 Feb (57)	5 Thur 3 Tues.	9768 5801 9982 9349	35 8889	210 0079	3772

TABLE

				CONCU	PRENT Y	EAR		
Kalı	Sakn	Chutrādi Viķrama	i solar year engal	Kollam	A D	JOVIAN SA		Intercalated (adhiku: and suppressed (Ishaya) true lunar months
		Chutrā	Meshidi solar m Bengal			Southern system	Northern system	
1	2	3	311	4	5	6	7	8
3773	591	~70				_		
3774	593	729 730	78 79		671 72	3 Sukla	· •	
3775	590	731	80		*672 73	4 Pram	•	
3776	527	732	81		673 74	5 Prajā		4 Āshādha
3777	595	733	82		674-75	6 Angu		
3778	533	734	83		675 76	7 Srīm	•	
3779	600	735	81		*676 77	8 Bhav		2 Vaisükha .
3780		738	85		077-78	9 Yuva		·
3751	1	737	}		678-79	10 Dhāt		7 Āśvina
3752	1	739	86 87		679 80	11 Isvar		
3783		732	89		*680 81	12 Bahu	-	
3744	1 "	740	89		681 82		iäthin	5 Śrāvana
3743	1	741	90		682 83	14 Vikra	•	
7-44		742	91		653 84	ferīV 61	- ·	
374	1	743	1		*684 85	16 Chitz		3 Jycshtha
374		1	1		683 86	17 Subh	•	
3*1	1	1	1	1	696 87	18 Tūra	•	
j* -	ŧ	1	1	1	637 88	19 Pärt	-	l Chaitra .
31,			1	1	*658 89	20 Vija:	•	
\$~,	* 1:	Ł	1	1	643 90	21 Shry		5 grāvaņa
**				1	690 81	22 Sarv	•	.
31.	16 71	\$	1	1	•ens 83	23 Virō	•	
3		* -:	₹	ł	C32 04	' 'IKT	•	. 4 Āshādha
	, n .	1 75	: ; 1^		(71.95	25 kha	•	
	3. 41	1 72	1 10	5	675 95	-0 WEU		
422	2.00	Manufacture (24)	A TOWNS THE PARTY OF			27 Vija	34	. 2 Vaišākha .

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9	COMMENCEMENT OF THE													
	SOLAR YEAR	•			LUNI-SOLAI	S YEAR (MF CHAI	an sun tra éu	RISE O	f civil da ends).	OIHW HO Y				
Day and month A. D	Week- day	M		true sam- tı.	Day and month A. D	Week day.		а	6		Kali.			
13	14		17		19	20		23	24	25	1			
19 Mar (78)	4 Wed.	H.	40	47	17 Mar. (76)	2 Mon		7 6173	971 892		-			
18 Mar (78)	5 Thur.	21	52		6 Mar (66)	0 Sat		1 9621	855 428					
19 Mar (78)	0 8at .	4	_		23 Feb (54)	4 Wed.		7 6950	702 6722					
19 Mar (78)	1 Sun .	10 16		14 23	14 Mar (73) 3 Mar (62)	3 Tues.	1	2 3774 3 1001	628 6656 485 9097					
19 Mar (78) 18 Mar (78)	3 Tues	22	41	23 81	20 Feb (51)	4 Wed.		·8230	333 1537		1			
19 Mar (78)	5 Thur	4	53	40	10 Mar (69)	3 Tues		5054	269 1472		I			
19 Mar (78)	6 Fm	11	5	49	27 Feb (58)	0 Sat		2283	116 3913	221 6188	1			
19 Mar (78)	O Sat .	17	17	58	18 Mar. (77)	6 Fm		9106	52 4848	272 9292	1			
18 Mar. (78)	1 Sun	23	30	7	7 Mar (67)	4 Wed	53	2655	935 9205	244 8437	8782			
19 Mar (78)	3 Tues	5	42	16	25 Feb (56)	2 Mon	267	6203	819 4561	216 7584	3783			
19 Mar (78)	4 Wod.	11	54	25	16 Mar (75)	1 Sun	302	3027	755 4498	268 0688	3784			
19 Mar (78)	5 Thur	18	6	34	5 Mar (64)	5 Thur	178	0255	602 6936	237 5456	3785			
19 Mar (79)	0 Sat.	0	18	43	22 Feb (53)	2 Mon	53	7384	449 9378	206 4223	3786			
19 Mar (78)	1 Sun	6	30	52	12 Mar (71)	1 Sun	88	4308	385 9312	257 7328	8787			
19 Mar (78)	2 Mon	12	43	1	1 Mar (60)	5 Thur	9964	1536	233 1752	227 1098	3788			
19 Mar (78)	3 T,000	18	55	10	18 Feb (49)	2 Mon	9839	8765	80 4194	196 0863	3789			
19 Mar (79)	5 Thur.	1	7	19	8 Mar (68)	∿l Sun	9874	pp89	16 4127	247 3967	3790			
19 Mar (78)	6 Fri	7	19	28	26 Feb (57)	6FH .	88 9	- 1	899 9484	219 3114	3791			
19 Mar (78)	0 Sat	13		37	17 Mar (78)	5 Thur	123 8	j	835 9419	270 6218	3792			
19.Mar (78)	1 Sun ·	_		46	6 Mar (65)	2 Mon	9999 3	- 1	683 1860	239 7986	3793			
19 Mar (79)	3 Tues	1		55	24 Feb (55)	0 Sats .	213 6	- 1	568 7217 468 4935	211 7131 260 1858	3704 9705			
19 Mar (78)	4 Wed	8	8	13	13 Mar, (72)	5 Thur. 2 Mon	9909 7 9785 4	,	466 423 5 313 667 <i>5</i>	1	3795 3796			
19 Mar (78) 19 Mar (78)	5 Thur 6 Fri		20 32	- 1	2 Mar. (61) 20 Feb (51)	0 Sat.	9999 8	1	1		3797			

TABLE

 -				CONC	JRRENT	YEAR				2.4.4
T		em.	year				Jovian San	VATSARA	(adhi) supp	calated (a) and pressed (ya) true
Kalı	Saka	Chattrādı Vıkrama	Mëshadi solar in Bengal	Kollam	A D		Southern systom	Northern system	lunar	months
1	2 ,	3	3a	4	5		6	7	_	8
3798 3799	619 620	754 755	103 104		*696 697	-98	28 Jaya 29 Man		. 6 Bhi	ādrapada
3800	621		1		698	700		nalamba •		.
3801	1		1	1	*700		32 Vila		. 5 Śri	ivaņa -
3802 3803	1					02	33 Vık	ārın • •	1	
380			1	1	709	2 03	34 Sār	varin • •		••
380		1	1 110	o	70	3 04	35 Pla		. 3 J ₂	rēshtha •
380	6 62	27 76	2 11	1	*70	4-05		bhakrit		•
38	07 6	28 76	33 11	2	1	05 06		bhana • •	1,0	haitra •
38				13		06 07 07-08		rödhin • •		••
-			.	14	1	07-08		arābhava .	5 8	rāvaņa •
			1	116	l l	709 10	41 P	lavança		•••
3	3812	633	768	117		710 11	42 F	Cilaka	-	
:	3813	634	769	118		711-12	43 \$	Saumya	4	Āshādha .
	3814	635	770	110	•	712-13		Sādhārana	•	• •
	3815	638	771	120		713 14		Virodhakrit .		• Vaišākha
	3916	637	772	121		714-15 715 16		Parıdhāvın Pramādın	.\~	•
	3818	639	774	123		*716 17		Ananda	1	Bhādrapada
	3819	640	775	124		717-18	49	Rākshasa .		
	2820	1	776	125		718-19	50	Anala		
	3821	1	777	126		719 20	1	J	• • • •	5 Śrāvana
	3822	643	778	127	2	*720 21	52	Kālayukta .	• •	

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				COM	MENCEMENT	OF THE				
S	OLAR LEAB				Luni-solar	YEAR (MEA Chaiti	n sunrise c la éuela 1 i	of Civil Day Ends).	ногну ко	
Day and month A D	Week- day	Mi	ne of sha s rant		Day and month A D	Week- day.	a	b	c	Kalı
13	14	-	17		19	20	23	24	25	1
19 Mar (79) 19 Mar (78)	1 Sun .	H 2 8	M 44 56	8 31 40	10 Mar (70) 27 Feb (58)	6 Fri	34 4841 9910 2070	133 1967 980 4408	252 6875 221 8643	3798 3799
19 Mar (78)	3 Tues	15	8	49	18 Mar (77)	2 Mon	9944 8894	916 4343	273 1748	3800
19 Mar (78)	4 Wed	21	20	58	8 Mar (67)	0 Sat	159 2443	799 9700	245 0671	3801
19 Mar (79)	6 Fn	3	33	7	25 Feb (56)	4 Wed	34 9671	647 2140	214 2440	3802
19 Mar (78)	0 Sat	9	45	16	15 Mar (74)	3 Tues	69 6496	583 2074	265 5543	3803
19 Mar (78)	1 Sun.	15	57	25	4 Mar (63)	0 Sat .	9945 3723	430 4516	234 7311	3804
19 Mar (78)	2 Mon	22	8	34	21 Feb (52)	4 Wed	9821 0852	277 6956	203 9079	3805
19 Mar (79)	4 Wed	4	21	43	11 Mar (71)	3 Tues ,	9855 7776	213 6890	255 2184	3806
19 Mar (78)	5 Thur.	10	33	52	1 Mar (60)	1 Sun	70 1324	97 2248	227 1329	3807
19 Mar (78)	6 Fr	16	46	1	18 Feb (49)	5 Thur	9946 0956	944 4986	196 3096	3808
19 Mar (78)	0 Sat	22	58	10	9 Mar (68)	4 Wed	9980 5376	880 4623	247 6201	3809
19 Mar (79)	2 Mon	5	10	19	27 Feb (58)	2 Mon	194 8924	773 9979	219 5348	3810
19 Mar. (78)	3 Tues	-11	22	28	17 Mar (76)	1 Sun	230 5748	699 9914	270 8451	3811
19 Mar (78)	4 Wed.	17	34	37	6 Mar (65)	5 Thur	105 2977	547 2355	240 0219	3812
19 Mar (78)	5 Thur	23	46	46	23 Feb (54)	2 Mon	9981 0206	394 4796	209 1987	3813
19 Mar (79)	0 Sat	5	58	55	13 Mar (73)	1 Sun .	15 7029	330 4730	260 5092	3814
19 Mar (78)	1 Sun.	12	11	4	2 Mar (61)	5 Thur	9891 4258	178 7171	229 6859	3815
19 Mar (78)	2 Mon	18	23	13	20 Feb (51)	3 Tues	105 7806	61 2528	201 6004	3816
20 Mar (79)	4 Wed	0	35	22	11 Mar (70)	2 Mon	140 4629	997 2462	252 9109	3817
19 Mar (79)	5 Thur	6	47	31	28 Feb (59)	6 Fr	16 1858	844 4903	222 0877	3818
19 Mar (78)	6 Fri.	12	59	40	18 Mar (77)	5 Thur	50 8682	780 4838	273 3981	3819
19 Mar (78)	0 Sat	19	11	49	8 Mar (67)	3 Tues	265 2231	604 0195	245 3126	3820
20 Mar (79)	2 Mon	1	23	58	25 Feb. (56)	0 Sat	140 9458	511 2635	214 4895	3821
19 Mar (79)	3 Tues	7	36	7	14 Mar (74)	5 Thur	9836 9963	410 9654	263 0622	3922

LXXXII-Contd

					COMMENCEME	ENT OF T	HE			
S	Solar Yeai	3			LUNI SOLAB	YEAR (MEAN CHAITR	sunrise of A Śukla 1 e	F CIVIL DAY YDS)	ON WHICH	1
Day and month A. D.	Week- day	Mis	e of the se	m.	Day and month A D	Week- day.	a	ь	c	Ka
13	14		17		19	20	23	24	25	1
		H	M	s						1
19 Mar. (79)	4 Wed	13	48	15	4 Mar (63)	3 Tues	51 3511	294 5011	234 9767	382
19 Mar (78)	5 Thur	20	0	24	21 Feb (52)	0 Sat	9927 0739	141 7452	201 1534	382
20 Mar (79)	O Sat .	2	12	33	12 Mar (71)	6 Fri	9961 7563	77 7385	255 4693	382
19 Mar (79)	1 Sun	8	24	42	1 Mar (61)	4 Wed	176 1112	981 2743	227 3785	382
10 Mar (78)	2 Mon.	14	36	51	18 Feb (49)	1 Sun .	51 8342	808 5184	196 5552	382
19 Mar (78)	3 Tues	20	49	0	9 Mar (68)	0 Sat	80 5163	744 5118	247 8656	3828
20 Mar (79)	5 Thur	3	1	9	26 Feb (57)	4 Wed	9962 2392	591 7559	217 0425	3829
19 Mar (79)	6 In	9	13	18	16 Mar (76)	3 Tues	9996 9216	527 7493	208 3529	3830
19 Mar. (79)	0 Sat	15	25	27	5 Mar (64)	0 Sat	9872 6444	374 9934	237 5297	3831
19 Mar (78)	1 Sun	21	37	36	22 Feb (53)	4 Wed	9748 3673	222 2374	206 7064	3832
20 Mar (79)	3 Tues	3	49	45	13 Mar (72)	3 Tues	9783 0497	158 2309	258 0169	3833
19 Mar (70)	4 Wed	10	1	54	2 Mar (62)	1 Sun .	9997 4046	41 7666	229 9215	3834
19 Mar (78)	5 Thur	16	14	3	20 Feb (51)	6 Frı	211 7493	925 3023	201 8460	3835
19 Mar (78)	6 Fri .	22	26	12	11 Mar (70)	5 Thur	246 4417	861 2958	253 1564	3836
20 Mar (79)	1 Sun	4	38	21	28 Fcb (59)	2 Mon	122 1646	708 5398	222 3332	3837
19 Mar (70)	2 Mon.	10	50	30	18 Mar (78)	1 Sup	150 8460	644 5333	274 6437	3838
19 Mar (78)	3 Tuos	17	2	39	7 Mar (66)	5.Thur	32 5698	501 7773	242 8204	3839
19 Mar (78)	4 Wed	23	14	48	24 Fob (55)	2;Mon.	9908 2926	339 0214	211 9973	3840
20 Mar (79)	6 Fri	5	26	57	15 Mar (74)	1 Sun , , ,	9942 9751	275 0149	263 2077	3841
19 Mar. (79)	0 Sat	11	39	6	3 Mar (63)	5 Thur	9818 6978	122 2588	232 4845	3842
19 Mar (78)	1 Son	17	51	15	21 Feb (52)	3 Tues	33 0527	5 7947	204 3990	3843
20 Mar (79)	3 Tues	0	3	24	12 Mar (71)	2 Mon	67 7351	941 7880	255 7105	3844
20 Mar (79)	4 Wed	6	15	33	2 Mar (61)	0 Sat	282 0900	825 3238	227 6240	3845
19 Mar (79)	5 Thur.	12	27	42	19 Feb (50)	4 Wed	157 8127	672 5678	198 8007	3846
19 Mar. (78)	6 Fri	18	39	51	9 Mar (68)	3 Tues	192 4951	608 5613	248 1112	3847

1									
Interculated (adhika) and suppressed (kshaya) iru- lunar monthi		MYATSABA. North	JOVIAN SA Southern system.	A D.	Chaitrādi Vikrama, Mēshādi solar year in Bongal, '		Šaks	Kalı	
			6	5	4	≥ 3a	3		
8		7	0						
5 Śrivana		iva .	19 Pärth	746 47		153	804	669	3848
444			20 Vyay	747-48		154	805	670	3849
			21 Sarva	*748-49		155	808	671	3850
3 Jyështha		-	22 Sarva	749 50		156	807	672	3851
			23 Virod	750 51		157	808	673	3852
•••	•		24 Vikti	751-52		158	809	674	3853
2 Vališkha	•	•	25 Khar	*752-53	1	159	810	675	3854
			26 Nand	753 54		160	811	676	3855
6 Bhādrapada	•		27 Vijay	754-55		161	812	677	3856
			28 Jaya	755-58		162	813	678	3857
•••	•		29 Mann	*756 57		163	814	679	2858
4 Āshādha	•		30 Durm	757-58		164	815	680	3859
		_	31 Hēm	758 59		165	816	681	3880
•••	•	-	32 Vilan	759 60	1	166	817	682	3861
3 Jyžahtha			33 Vikās	*760 61		167	818	683	3862
o alestica		-	34 Sārvi	761-62		168	819	684	3863
7 Āirma			35 Play	762-63		169	820	685	3904
			36 Subi	763 64		170	821	686	3865
***			37 Sabb	*764-65	1	171	822	687	3866
5 Srāvena		_	38 Kröd	765 66	1	172	823	688	3867
		_	39 V15v1	766 67	ł	1	824	689	3868 3869
•••		bhava .		767-68	ł	1	825	}	3870
3 Jyšehtha			41 Play	*768 69	1	1	826 827	1	3871
			42 Kilal	769-70	i	1 -10	1	1	3872
***	•	iya .	43 Saun	770 71		177	1 020	1	-

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			(COM	MENCEVENT	OF THE						
S	OLAT 3 FAR.				Luhi solar	Lumi solar year (mfan sunrise of civil day on which Chaitra éukla 1 fnds)						
Day and month A D	Werk- day	Mi	e of din s rånt		Day and month A D	Week- day	a	b	c	_ Kalı,		
13	14		17		19	20	23	24	25	1		
20 Mar. (79)	I Sun	II 0	81 52	s o	26 Feb (57)	0 Sat .	68 2180	455 8054	217 2881	3848		
20 Mar (79)	2 Mon	7	4	ŋ	17 Mar (76)	6 Fri .	102 9003	391 7988	268 4984	3849		
19 Mar (79)	3 Tuns	13	16	18	5 Mar (65)	3 Tues	9978 6232	239 0429	237 7752	3850		
10 Mar (78)	4 Wed	19	28	27	22 Feb (53)	O Sat .	9854 3461	86 2869	206 9520	3851		
20 Mar (70)	GΓn .	1	10	36	13 Mar (72)	6 Fri	9889 0285	22 2804	258 2625	3852		
20 Mar (79)	OSat .	7	52	45	3 Mar (62)	4 Wed	103 3633	905 8161	230 1770	3853		
19 Mar. (79)	1 Sun	14	4	54	21 Feb (52)	2 Mon	317 7384	789 3518	202 0915	3854		
19 Mar (78)	2 Vion	20	17	3	10 Mar (69)	0 Sat	13 7885	689 0537	250 6642	3855		
20 Mar (79)	4 Wed	2	29	12	28 Feb (59)	5 Thur	228 1433	572 5894	222 5788	3856		
20 Mar (79)	5 Thur	8	41	21	18 Mar (77)	3 Tues.	9924 1937	472 2911	271 1514	3857		
10 Mar (70)	6 Fm	14	53	30	6 Mar. (66)	O Sat .	9799 9166	319 5352	240 3282	3858		
10 Mar (78)	0 Sat.	21	Б	39	21 Teb (55)	5 Thur	14 2714	203 0709	212 2428	3839		
20 Mar (79)	2 Mon	3	17	48	15 Mar (74)	4 Wed	48 9538	139 0644	263 5533	3860		
20 Mar (79)	3 Tues	9	29	57	4 Mar (63)	1 Sun .	9924 6766	986 3084	232 7300	3861		
19 Mar (79)	4 Wed	15	42	G	22 Feb. (53)	6 Fn .	139 0315	869 8442	204 6445	3862		
19 Mar (78)	5 Thur	21	54	15	12 Mar (71)	5 Thur.	173 7138	805 8377	255 9550	3863		
20 Mar (79)	O Sat .	4	6	24	1 Mar (60)	2 Mon	49 4367	653 0816	225 1318	3864		
20 Mar (79)	1 Sun	10	18	33	20 Mar (79)	1 Sun	84 1191	589 0751	276 4422	3865		
10 Mar (79)	2 Mon	16	30	42	8 Mar (68)	5 Thur	9959 8420	436 3192	245 6189	386b		
19 Mar (78)	3 Tues	22	42	51	25 Feb (56)	2 Mon	9835 5647	283 5633	214 7958	3867		
20 Mar (79)	5 Thur	4	55	0	16 Mar (75)	1 Sun	0870 2472	219 5507	266 1062	3868		
20 Mar (79)	6 Fra	11	7	8	6 Mar (65)	6 Fri	84 6020	103 0923	238 0208	3869		
19 Mar (79)	0 Sat	17	19	17	23 Fob (54)	3 Tues	9960 3248	950 3365	207 1975	3870		
19 Mar (78)	1 Sun	23	31	26	13 Mar (72)	2 Mon	9995 0072	880 3299	258 5080	3871		
20 Mar (79)	3 Tues	5	43	35	3 Mar (62)	0 Sat	209 3621	769 8656	230 4226	3872		

		AR	JRRENT YE	CONCU				
Intercalated (adhika) and suppressed	IVATSARA	Jovian Sai			Vikrama lar year J			
(kshaya) true lunar months	Northern system	Southern system	A D	Kollam	Mëshadı solar ın Bengal	Chaitrādi Vikrama	Saka	Kalı
8	7	6	5	4	3a	3	2	1
		44.00.31	771-72		178	829	694	3873
2 Varšākha	·	44 Sādhā	-		179	830	695	3874
	·	45 Virod	*772-73		180	831	696	3875
6 Bhādrapada		46 Paridi	773 74		181	832	697	3876
•		47 Prami	774 75			833	698	3877
	la.	48 Ānano	775 76		182		699	3878
4 Ashādha	888	49 Rāksl	*776-77		183	834		3879
		50 Anala	777-78		184	835	700	3880
	a ·	51 Pinga	778 79		185	836	701	3881
3 Jyështha	ukta	52 Kālay	779 80		186	837	702	3882
* •	irthm	53 Siddh	*780 81		187	838	703	3883
7 Aévina	ъ.	54 Raudi	781-82		188	839	704	3884
	atı .	55 Durm	782-83		180	840	705	
	ıbhı	56 Dund	783 84		190	841	708	3885 3886
5 Śrāvana	rödgärın	57 Rudh	*784 85		191	842	707	3887
o sawana	ksha	58 Raktā	785 86	į.	192	843	708	3888
	• 1	59 Krödi	786 87	1	193	844	709	
3 Jyështha	70.	60 Kshay	787 88	1		845	710	3889 3890
o o yeanina	ava.	1 Prabl	*788 89	1		846	711	3891
	• 1	2 Vibha	789-90	1	1	847	712	3892
0.77. (**)	• • • •	3 Sukla	790 91			848	1	3893
2 Vaišākha	•	4 Pram	791-02	1		849	1	3891
0.70	•	5 Prajā	792 93	1			1	3995
6 Bhādrapada	· .	6 Angir	793 94			1	1	3996
	• 1	7 Srīms	794 95	1		1	1	3397
4 Āshūdha .	• ;	8 Bhāv	795 96	2	202	853	718	

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			C	(120)	ENCEMENT (OF THE					
	Solar Year	4			Luni solar year (mean sunrise of on il day on which Chaitra surla 1 ends)						
Day and month A D	Week- dry.	Mes	o of ha s rant	nii-	Day and Week-month A. D. day		а	ъ	c	Kal	
13	14		17		19	20	23	24	25	1	
20 Mat (79)	4 Wed .	H 11	M 55	S 44	20 Feb (51)	4 Wed	75 0849	617 1097	199 5993	387	
19 Mar (79)	5 Thur	18	7	53	10 Mar (70)	3 Tues	119 7672	553 1032	250 9097	3874	
20 Mar (79)	O Sat .	0	20	2	27 Feb (58)	O Sat .	9995 4901	400 3472	220 0866	3870	
20 Mar. (79)	1 Sun .	6	32	11	18 Mar (77)	6 Frı	30 1725	336 3306	271 3970	3870	
20 Mar (79)	2 Mon	12	44	20	7 Mar (66)	3 Tues	9905 8953	183 5848	240 5738	3877	
19 Mar (79)	3 Tues	18	56	29	25 Teb (56)	1 Sun	120 2501	67 1204	212 4883	3878	
20 Mar (79)	5 Thur	1	8	38	15 Mar (74)	O Sat .	154 9326	3 1139	263 7988	3879	
20 Mar (79)	6 Fri	7	20	47	4 Mar (63)	4 Wed.	30 6554	850 3579	232 9756	3880	
20 Mar (79)	O Sat .	13	32	56	22 Feb (53)	2 Mon	245 0102	733 8937	204 8901	3881	
19 Mar (79)	1 Sun .	19	45	5	12 Mar (72)	1 Sun .	279 6926	669 8872	256 2005	3882	
20 Mar (79)	3 Tues	1	57	14	1 Mar (60)	5 Thur	155 4155	517 1311	225 3773	3883	
20 Mar (79)	4 Wed	8	9	23	19 Mar (78)	3 Tues	9851 4059	416 8330	273 9500	3884	
20 Mar (79)	5 Thur.	14	21	32	8 Mar (67)	0 Sat	9727 1887	264 0770	243 1167	3885	
19 Mar (79)	6 Fn .	20	33	41	26 Feb (57)	5 Thur	9941 5435	147 6128	215 0413	3886	
20 Mar (79)	1 Sun	2	45	50	16 Mar (75)	4 Wed	9976 2260	83 6062	266 3517	3887	
20 Mar (79)	2 Mon	8	57	59	6 Mar (85)	2 Mon	190 5807	967-1418	238 2064	3888	
20 Mar (79)	3 Tues	15	10	8	23 Fob (54)	6 Fri	66 3036	814 3852	207 4431	3889	
10 Mar (70)	4 Wed	21	22	17	13 Mar. (73)	5 Thur	100 0800	750 3794	258 7535	3890	
20 Mar (79)	6 Fm .	3	34	26	2 Mar (01)	2 Mon	9976 7089	597 6235	227 9303	3891	
20 Mar (79)	0 Sat .	9	46	35	19 Feb (50)	6 Fm .	9852 4317	444 8676	197 1071	3892	
20 Mar (79)	1 Sun	15	58	44	10 Mar (69)	5 Thur	9887-1140	380 8610	248 4175	3893	
19 Mar (79)	2 Mon	22	10	53	27 Fob (58)	2 Mon	9762 8369	228 1051	218 4943	3894	
20 Mar (79)	4 Wed	4	23	2	17 Mar (76)	1 Sun .	9797 5192	164 0986	268 9047	3895	
20 Mar (79)	5 Thur	10	35	11	7 Mar (66)	8 Fri	11 8741	47 6342	240 8194	3896	
20 Mar (79)	6 Fn	16	47	20	25 Feb (56)	4 Wed	226 2289	931 1699	212 7339	3897	

					ONCU	RRENT Y	EAR		=====	Ī		1
		rama	year	1			Joyian Sai		Intercalated (adhila) and suppressed			
Kalı	Śaka	Chaitrādi Vikrama	Meshadı solar y	Kol	lam	A D	Southern system	Northe systen			(I shaya) true unar months	
1	2	3	3a	-	4	5	6	7		_ _	8	_
3898	719	85	4 20	3		*796-97	9 Yuva	ın .			•	
3899	720	85	5 20	4		797-98	10 Dhāt	rı.		1	•	1
3900	721	88	6 20	5	1	798-99	11 Isvai	ra		3	Jyīshtha	\cdot
3901	722	8	57 20)6		799 800	12 Bahr	ıdhānya	•		•	
3902	723	8	58 2	07		*800 01	U3 Pran	nāthın .		13	Aśvina	\cdot
3903	72	8	59 2	03		801 02	14 Vıkr	ama .	•		•	
3904	72	5 8	60 2	09		802 03	15 Vris	ha .			•••	1
3908	5 72	6 8	61 2	10		803 04	16 Chit	rabhānu	•	1	5 Śrāvana	\cdot
390	6 72	7 8	62 2	11		*804-05	17 Sub	hānu .	•		••	1
390	7 72	8 8	363 2	212		805 06	18 Tāra	ana		.	•	1
390	8 72	9	864	213		806 07	19 Pār	thiva .	•		3 Jyështha	-
390	9 7	30	865	214		807 08	20 Vys	ıya .	•	-	••	
391	10 7	31	866	215		*808-09	21 Sar	vajit .	•		•	
39	11 7	32	867	216		809-10	22 Sar	vadhārın			1 Chaitra	
39	12 7	33	868	217		810 11	23 Vir	ödhın .		-	•	- 1
39	13	34	869	218		811-12	24 Vil	crita .	•	Ì	5 Śrāvana	
	- 1	735	870	219		*812-13	25 Kh	nara .	•	-	•	1
	- (736	871	220		813-14	26 Na	ndana .	•		• •	
		737	872	221		814 1		_	•		4 Āshādha	٠
	917	738	873	222		815 1	1		•		•••	
	918	739	874	223		*816-1		anmatha .	•	•	•	
	3920	740 741	875 876	224		817-1		urmukha .	•	•	3 Jyështha	•
	3921	742	876 877	225 226		818-1		ēmalamba	•	•		
	3922	743	878	227		*820		ilambat . ārcaren .	•	٠	7 Āévina	•
**					<u> </u>		34 Si		•	٠	•••	

^{† 33} Vikārin was suppressed.

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			(COM	MENCEMENT	OF THE							
\$	SOLAP YEAR	1			Luvi-solar	Luvi-solar yfar (mean sunrise of civil day on which Chaitpa surla 1 ends).							
Dry and month A. D	Week- day	Mc.	Time of true Misha sam kranti		Day and month A D.	Week day	а	ь	c	Kal			
13	14	_	17		19	20	23	24	25	1			
19 Mar (79) 20 Mar (79)	0 Sat	H 22 5	M 59	S 29 38	15 Mar (75) 4 Mar (63)	3 Tues	260 9113 136 6341	807 1634 714 4074	264 0442 233 2211	3898			
20 Mar (79)	3 Tues	11	23	47	21 Feb (52)	4 Wed	12 3570	561 6515	202 3979	3900			
20 Mar (70)	4 Wed	17	35	50	12 Mar (71)	3 Tues	47 0394	497 6449	253 6621	3901			
19 Mar (79)	5 Thur	23	48	5	19 Feb (60)	O Sat .	9922 7623	344 8890	222 8629	3902			
20 Mar (79)	0 Sat	6	0	14	19 Mar (78)	6 Fri .	9957 4347	280 8825	274 1733	3903			
20 Mar (79)	1 Sun	12	12	23	8 Mar (67)	3 Tues	9833 1675	128 1265	243 3500	3904			
20 Mar (79)	2 Mon	18	24	32	26 Feb (57)	I Sun	47 5223	11 6622	215 2647	3905			
20 Mar (80)	4 Wed.	0	36	11	16 Mar (76)	O Sat -	82 2048	947 6557	266 <i>575</i> 1	3906			
20 Mar (79)	5 Thur	6	48	50	6 Mar (65)	5 Thur	296 5595	831 1914	238 4897	3907			
20 Mar (79)	6 Fn	13	0	59	23 Feb (54)	2 Mon .	172 2824	678 4354	207 6664	3908			
20 Mar (79)	0 Sat	19	13	8	14 Mar (73)	l Sun .	206 9648	614 4289	258 9769	3909			
20 Mar (80)	2 Mon	1	25	17	2 Mar (62)	5 Thur	82 6876	461-6730	228 1537	3910			
20 Mar. (79)	3 Tues.	7	37	26	19 Feb (50)	2 Mon	9958 4105	308-9171	197 3304	3911			
20 Mar (79)	4 Wed	13	49	35	10 Mar (69)	1 Sun	9993 0928	244-9104	248 6408	3912			
20 Mar (79)	5 Thur	20	1	44	27 Feb (58)	5 Thur	9868 8157	92 1545	217 8177	3913			
20 Mar (80)	0 Sat .	2	13	52	17 Mar (77)	4 Wed	9903 4980	28 1481	269 1281	3914			
20 Mar (79)	1 Sun	8	26	1	7 Mar (66)	2 Mon	117 8529	908 6837	251 0427	3915			
20 Mar (79)	2 Mon	14	38	10	24 Feb (55)	6 Fra .	9993 5758	758 9278	210 2194	3916			
20 Mar (79)	3 Tues	20	<i>5</i> 0	19	15 Mar (74)	5 Thur	28 2581	694 9212	264 5299	3917			
20 Mar. (80)	5 Thur	3	2	28	3 Mar (63)	2 Mon .	9903 9810	542 1653	230 7067	3918			
20 Mar. (79)	6 Fm •	9	14	37	21 Feb (52)	O Sat .	118 3358	425 7009	202 6212	3919			
20 Mar (79)	0 Sat .	15	26	46	11 Mar (70)	5 Thur .	9814 3862	325 4028	251 1938	3920			
20 Mar (79)	1 Sun	21	38	6 55	1 Mar (60)	3 Tues	28 7410	208 9389	223-1084	3921			
20 Mar (80)	3 Tues	3	51	4	19 Mar (79)	2 Mon	63 4234	144-9321	274 3989	3922			

				CONCUI	RRENT YE	LAR			
		'ıkrama	lar year		-	Jovian Sam	IVATSARA		Intercalated (adhila) and suppressed (kshaya) true
Kalı	Saka	Chattrādı Vikrama	Mehādi solar in Bengal	Kollam	A D Southern Norther system		Northern system		lunar months
1	2	3	3a	4	5	6	7		8
3923	744	879	228		821-22	35 Plava	• •		
3924	745	880	229		822-23	36 Śubha	kŗit .		5 Śrāvaņa .
3925	716	881	230		823-24	37 Ś>ēha	na .		
3926	747	882	231		*824-25	38 Krōdł	ıın		
3927	748	883	23?	01	825 26	39 Viévā	vasu .		3 Jyështha .
3928	749	884	233	1-2	826 27	40 Parāb	hava		
3729	750	885	234	2-3	827-28	41 Plava	nga		
3930	1	886	235	3 4	*828 29	42 Kilak	a.		1 Chartra .
3931	'	887	236	4-5	829 30	43 Saum	уа.		
3032	1	888	237	56	830 31	44 Sādhā	irana .		5 Šrāvana .
3933 3934	1	830	238	6-7	831-32	45 Vıröd	hakpit		
331:	1	800	239	1 .	*832-33	46 Parid	hāvın		
293	1	891	240		833 34	47 Pram	ādın .		4 Āshādha
393	1				834 35	48 Anan	- •		
393	1	1			835 36	49 Rāks	hasa .		
793		1			*836 37	50 Anals	_		2 Varsākha .
33(1		1		837 38 838 39	51 Pinga			81
30	13 76	ı			839 40	52 Kālay		•	6 Bhādrapada
34	12 76	3 60	9 24	1	*840-41	53 Siddl	· ·	•	
	63 70	4	3 24	[841 42	54 Raud	•	•	•••
	i.	- 20	0 24	17 18	842 43	55 Durn	-	•	б Śrāvaņa
	ust 7/		1 27	D 18 19		56 Dund	nrōdgārın		•
	H4 , 7	1	1	10 20	*944-45	58 Rakt		•	
all of	}}** ' "(is i bo	3 2:	20.21	}	1 SO THERE	-	•	3 Jyčshtha .

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			(COM	MENCEMENT	OF THE				
	OLAR YEAR	P			LUNI SOLAF		ly sunrise c fra sulla I		ор миісн	
Day and month A D	Week- day	Me	ie of sha r rant		Day and month A D	Weel -	α	6		Kalı
13	14		17		19	20	23	24	25	1
20 Mar (79)	4 Wed	H 10	M 3	S 13	8 Mar (67)	6 Frı	9939 1463	992 1760	243 5950	3923
20 Mar (79)	5 Thur	16	15	22	26 Feb (57)	4 Wcd	153 5010	875 7118	215 5102	3924
20 Mar (79)	6 Fn	22	27	31	17 Mar (76)	3 Tues	188 1834	811 7052	266 8206	3925
20 Mar. (80)	1 Sun	4	39	40	5 Mar (65)	O Sat .	63 9063	658 9493	235 9975	3926
20 Mar (79)	2 Mon	10	51	49	22 Fob (53)	4 Wed	9939 6292	506 1933	205 1642	3927
20 Mar (79)	3 1 ncs	17	3	58	13 Mar (72)	3 Tues	1971 3115	442 1868	256 4846	3928
20 Mar (79)	4 Wod	23	16	7	2 Mar (61)	0 Sat	9850 0344	289 4309	225 6614	3929
20 Mar (80)	6 Fri	5	28	16	20 Feb (51)	5 Thur	64 6593	172 9666	197 5760	3930
20 Nat (79)	0 Sat	11	40	25	10 Mar (69)	1 Wed	98 8015	108 9590	248 8864	3931
20 Mar (79)	1 Sun	17	52	34	27 Feb (58)	1 Sun	9974 7944	956 2040	218 0632	3932
21 Mar (80)	3 Tucs	0	4	43	18 Mar (77)	0 Sat	9 4768	892 1976	269 3736	3933
20 Mar (80)	4 Wod	6	16	52	7 Mar (67)	5 Thur	223 8317	775 7333	241 2883	3934
20 Mar (79)	5 Thur	12	29	1	24 Feb (55)	2 Mon	99 5545	622 9773	210 4650	3935
20 Mar (79)	6 Fri	18	41	10	15 Mar (74)	1 Sun	134 2369	558 9708	261 7754	3936
21 Mar (80)	1 Sun	0	53	19	4 Mar (63)	5 Thur	9 9598	406 2148	230 9522	3937
20 Mar (80)	2 Mon	7	5	28	21 Feb (52)	2 Mon	9885 6826	253 4589	200 1290	3938
20 Mar (79)	3 Tues	13	17	37	11 Mar (70)	1 Sun	9920 3649	189 4523	252 4294	3939
20 Mar (79)	4 Wed	19	29	46	28 Feb (59)	5 Thur	9796 0878	36 6964	220 6162	3940
21 Mar (80)	6 Fr1	1	41	55	20 Mar (79)	5 Thur	169 4022	8 9816	274 6644	3941
20 Mar (80)	0 Sat	7	54	4	8 Mar (68)	2 Mon	45 1250	856 2255	213 8412	3942
20 Mar (79)	1 Sun	14	6	13	26 Feb (57)	0 Sat	250 4798	739 7613	215 7558	3943
20 Mar. (79)	3 Mon	20	18	22	17 Mar (76)	6 Frı	294 1622	675 7547	267 0662	3944
21 Mar (80)	4 Wed	2	30	31	6 Mar (65)	3 Tues	169 8851	522 9988	236 0990	3945
20 Mar (80)	5 Thur	8	42	40	23 Feb (54)	0 Sat	45 5979	370 2428	205 4197	3946
20 Mar (79)	6 Fm	14	51	49	12 Mar (71)	5 Thur	9741 6583	269 9446	253 9924	3947

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				(COMMENCEME	ENT OF TH	E			
1	Solab yeab	•			Luni solar y		SUNRISE OF SUKLA 1 EN		ON WHICH	
Day and month A D	Week- day,	Müs	o of ha si rant	aria-	Day and month A. D	Wcek-day.	a	b	0	Kalı
13	14		17		19	20	23	24	25	1
20 Mar (79) 21 Mar (80)	O Sat	H. 21	M 6	S 58	2 Mar (61) 19 Feb (50)	3 Tues	9956·0132 9832 2167	153 4804 0 7839	226 0070 195 0837	3948 3949
20 Mar (80)	3 Tues	9	31	16	10 Mar (70)	0 Sat	205 0503	978-0095	249 2319	3950
20 Mar (70)	4 Wed.	15	43	25	27 Feb (58)	4 Wed	80 7732	820 2535	218 4088	3951
20 Mar. (79)	5 Thur	21	55	34	18 Mar (77)	3 Tues	115 4556	756 2470	269 6192	3952
21 Mar (80)	OSat .	4	7	43	7-Mar (66)	O Sat.	9991 1784	603 4911	238 7960	3953
20 Mar (80)	I Sun .	10	19	52	24 Feb (55)	4 Wed	9866 9013	450-7353	207 9727	3954
20 Mar (79)	2 Mon .	16	32	1	14 Mar (73)	3 Tues.	9900 5837	386 7286	259 2832	3955
20 Mar (79)	3 Tues.	22	49	10	3 Mar (62)	0 Sat.	9777 3065	233 9727	228 4600	3956
21 Mar (80)	5 Thur	4	56	19	21 Feb (52)	5 Thur	9991 6613	117 5084	200 3745	3957
20 Mar (80)	6 Fra.	11	8	28	11 Mar (71)	4 Wed.	26 3437	<i>5</i> 3 <i>5</i> 018	251-6849	3958
20 Mar (79)	O Sat .	17	20	37	1 Mar. (60)	2 Mon	240 4285	937 0375	223 5995	3959
20 Mar. (79)	1 Sun	23	32	45	20 Mar. (79)	1 Sun	275 3809	873 0310	274 9100	3960
21 Mar (80)	3 Tues	5	44	54	9 Mar (68)	5 Thur	151 1038	720-2751	244 0867	3961
20 Mar (80)	4 Wed	11	57	3	26 Fob (57)	2 Mon	26 8266	567-5191	213 2635	396
20 Mar (79)	5 Thur	18	9	12	16 Mar (75)	1 Sun.	61 5090	503 5126	264 5739	3963
21 Mar (80)	O Sat	0	21	21	5 Mar. (64)	5 Thur	9937 2318	350 7566	233 5708	3964
21 Mar (80)	1 Sun .			30	22 Feb (53)	2 Mon.	9812 9547	198 0007	202 9275	3965
20 Mar (80)	2 Mon.			39	12 Mar. (72)	1 Sun.	9847 6371	132 9941	254 2379	3966
20 Mer (79)	3 Tues	18	57	48	2 Mar (61)	6 Fra	61 9919	17 5299	226 1525	3967
21 Mar. (80)	5 Thur.	1		57	19 Feb (50)	3 Tues.	9937 7149	864 7741	195 8293	3968
21 Mar (80)	6 Fm	7	22	8	11 Mar (70)	3 Tues.	311 0291	837 0590	249 3775	3969
20 Mar (80)	O Sat	13		15	28 Feb (59)	0 Sat.	186 7519	684 3031	218 5543 269 8647	3970 3971
20 Mar (79)	1 Sun	19		24	18 Mar (77)	6 Eri	221 4343	620-2965 467 5406	239 0416	3972
21 Mar (80)	3 Tues.	1	58	33	7 Mar (66)	3 Tues	97 1572	301 0300	200 V210	

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				COMMENCEME	NT OF TH	E			
	Solab year	•		Luni solar y	EAR (MEAN CHAITHA	SUNRISE OF SUELA 1 EN	CIVIL DAY O	N WHICH	
Day and month A.D	Week- day.	Měsh	of true a sam- anti.	Day and month A D	Week-day	a	å		Kalı
13	14	1'	7	19	20	23	24	25	1
20 Mar (79)	0 Sat.	H 21	M S 6 58	2 Mar. (61)	3 Tues	9956 0132	153 4804	226 0070	3948
21 Mar (80)	2 Mon	3	19 7	19 Feb (50)	0 Sat	9832 2167	0.7839	195 0837	3949
20 Mar (80)	3 Tues.	9 ;	31 16	10 Mar (70)	0 Sat.	205 0503	973 0095	249 2319	3950
20 Mar. (79)	4 Wed.	15	43 25	27 Feb (58)	4 Wed	80 7732	820 2535	218 4088	3951
20 Mar (79)	5 Thur	21 (55 34	18 Mar (77)	3 Tues	115 4556	756 2470	269 6192	3952
21 Mar (80)	O Bat.	4	7 43	7-Mar (66)	O Sat.	9991 1784	603 4911	238 7960	3953
20 Mar (80)	1 Sun	10	19 52	24 Feb (55)	4 Wed	9866 9013	450 7353	207-9727	3954
20 Mar (79)	2 Mon.	16	32 1	14 Mar. (73)	3 Tues.	9900-5837	386 7286	259 2832	3955
20 Mar. (79)	3 Tues.	22	49 10	3 Mar (62)	0 Sat.	9777 3065	233 9727	228 4600	3956
21 Mar (80)	5 Thur.	4 4	56 19	21 Feb (52)	5 Thur	9991 6613	117 5084	200 3745	3957
20 Mar (80)	6 Fr	11	8 28	11 Mar. (71)	4 Wed	26 3437	53 5018	251-6849	3958
20 Mar (79)	0 Sat.	17 5	20 37	1 Mar. (60)	2 Mon	240-4285	937 0375	223 5995	8959
20 Mar. (79)	1 Sun.	23 3	32 45	20 Mar. (79)	18un	275 3809	873-0310	274-9100	3980
21 Mar (80)	3 Tues.	5 4	14 54	9 Mar. (68)	5 Thur	151 1038	720-2751	244 0867	3961
20 Mar (80)	4 Wed.	11 8	57 3	26 Feb (57)	2 Mon	26 8266	587-5191	213 2635	396
20 Mar. (79)	5 Thur	18	9 12	16 Mar. (75)	1 Sun	61 5090	503 5126	264 5739	3963
21 Mar (80)	08at .	0 :	21 21	5 Mar. (64)	5 Thur.	9937 2318	350-7566	233 5708	3964
21 Mar (80)	1 Sun	6 3	33 30	22 Feb (53)	2 Mon	9812 9547	198 0007	202-9275	3965
20 Mar (80)	2 Mon	12 4	45 39	12 Mar (72)	l Sun.	9847 6371	132 9941	254 2379	3966
20 Mar. (79)	3 Tues .	18 8	57 48	2 Mar (61)	6 Fri.	61 9919	17-5299	226 1525	3957
21 Mar (80)	5 Thur.	1	9 57	19 Feb (50)	3 Tues	9937 7149	864 7741	195 8293	3968
21 Mar. (80)	6 Fra	7 :	22 6	11 Mar (70)	3 Tues	311 0291	837 0590	249 3775	3969
20 Mar. (80)	O Sat.	13 3	34 15	28 Feb (59)	0 Sat	186 7519	684 3031	218 5543	3970
20 Mar (79)	1 Sun	19	46 24	18 Mar (77)	6 Fri	221 4343	620-2965	269 8647	3971
21 Mar (80)	3 Tues	1 1	58 33	7 Mar (66)	3 Tues.	97 1572	467 5408	239 0416	3972

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			C	ONIN	ENCEMENT O	F THE				
Solai	R YEAR				LUNI-SOLAR	YEAR (MEAI CHAITE	n sunrise o La śukla 1 d	F CIVIL DAY NDS)	ON WHICH	
Day and month A D.	Wock- day	Mc	e of sha s crant	am-	Day and month A. D.	Week-day	а	ь	c	Kali
13	14	-	17		19	20	23	24	25	1
21 Mar (80)	4 Wed	8 H	M. 10	42	24 Feb (55)	0 Sat	9972 8801	313 7846	208 2183	
20 Mar. (80) 20 Mar (79)	5 Thur .	14 20	22 35	51 0	14 Mar. (74) 3 Mar (62)	6 Fr 3 Tues	7 5624 9883 2853	98 0222	259 5087 228 7055	3975
21 Mar (80) 21 Mar (80)	1 Sun 2 Mon.	8	47 59	9 18	21 Feb (52) 12 Mar (71)	1 Sun 0 Sat	97-6401 132 3224	981 5579 917 5514	200 6101 251 9305	3976 3977
20 Mar (80) 20 Mar (79)	3 Tues .	15 21	11 23	27 36	29 Feb (60) 19 Mar (78)	4 Wed 3 Tues	8 0453 42 7277	764 7954 700 7889	221 1072 272 4177	3978 3979
21 Mar. (80) 21 Mar (80)	6 Fri .	3 9	35 47	45 54	8 Mar (67) 26 Feb. (57)	0 Sat .	9918 4506	548 0330 431 5686	241 5146 213 5091	3980 3981
20 Mar (80)	1 Sun .	16	0	3	15 Mar. (75) 5 Mar. (64)	3 Tues	9828 8558 43 2106	331 2705 214 8081	262 0817 234 0013	3982 3983
20 Mar. (79) 21 Mar (80)	4 Wed	4	24	21	22 Feb (53)	5 Thur	9918 9335	62 0502	203 1731	3984
21 Mar (80) 20 Mar (80)	6 Fm .	16	36 48	30 39	13 Mar (72) 2 Mar (62)	4 Wed 2 Mon	9953 6158 167 9707	998 0436 881 5794	254 4835 226 3980	3985 3986
20 Mar (79) 21 Mar (80)	0 Sat . 2 Mon .	23 5	0 12	48 57	19 Feb. (50) 10 Mar (69)	6 Fr1 5 Thur	43 6936 78 3759	728 9235 664 8169	195 5748 246 7165	3987 3988
21 Mar (80) 20 Mar (80)	3 Tues 4 Wed	11 17	25 37	6 15	27 Feb (58) 17 Mar (77)	2 Mon 1 Sun	9954 0987 9988 7811	512 0610 448 0544	216 0621 267 3724	3989 3990
20 Mar (79) 21 Mar (80)	5 Thur 0 Sat .	23 6	49 1	24 33	6 Mar (65) 23 Feb (54)	5 Thur. 2 Mon	9864 5040 9740 2268	294 2984 142 5426	236 5493 205 7261	3991 3992
21 Mar (80) 20 Mar (80)	1 Sun 2 Mon	12 18	13 25	42 51	14 Mar (73) 3 Mar (63)	1 Sun. 8 Fri	9774 9092 9989 2641	78 5360 962 0717	1	3993 3994
21 Mar (80)	4 Wed	0	38	0	21 Feb (52) 12 Mar (71)	4 Wed	203 6198 238 3012	845 6075 781·6009	200 6968	3995 3996
21 Mar. (80) 21 Mar. (80)	5 Thur . 6 Fm	31	50 2	9 18	12 Mar (71)	0 Sat	114 0241	628 8449		3997

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LXXXII—Contd

			(COM	MENCEMENT	OF THE				7
5.	SOLAR YEAR	3			Luni-solar	YEAR (MEA CHAITR	n sunrise o A śurla 1 e	F CIVIL DAY NDS)	ON WHICH	
Day and month A D	Week- day	Mc	e of sha-s rant		Day and month A D	Week- day	a	ь	c	Kalı.
13	14	-	17		19	20	23	24	25	1
		Ħ	M	s						-
20 Mar (80)	0 Sat	19	14	27	19 Mar. (79)	6 Fn .	148 7064	564 8384	272 6632	3998
21 Mar (80)	2 Mon	1	26	36	8 Mar (67)	3 Tues	24 4293	412 0825	241 8401	3999
21 Mar (80)	3 Tues	7	38	45	25 Feb (56)	O Sat .	9900 1522	259 3266	211 0169	4000
21 Mar (80)	4 Wed	13	5 0	54	16 Mar (75)	6 Fr:	9934 8345	195 3200	262 3050	4001
20 Mar (80)	5 Thur	20	3	3	4 Mar (64)	3 Tues	9810 5573	42 5640	231 4818	4002
21 Mar (80)	0 Sat	2	15	12	22 Feb (53)	1 Sun	24 9122	926 0997	203 3963	4003
21 Mar (80)	1 Sun	8	27	21	13 Mar (72)	0 Sat .	59 5945	862 0930	254 7067	4004
21 Mar (80)	2 Mon	14	29	29	3 Mar (62)	5 Thur	273 9494	745 6289	226 6213	4005
20 Mar (80)	3 Tues	20	51	38	20 Mar (80)	3 Tues	9969 9998	645 3307	275 1940	4006
21 Mar (80)	5 Thur	3	3	47	10 Mar (69)	1 Sun	184 3546	528 8665	247 1085	4007
21 Mar (80)	6 Frı	9	15	56	27 Feb (58)	5 Thur	60 0774	376 1105	216 2853	4008
21 Mar (80)	0 Sat	15	28	5	17 Mar (76)	3 Tues	9756 1279	275 8123	264 8579	4009
20 Mar (80)	1 Sun	21	40	14	6 Mar (66)	1 Sun	9970 4827	159 3479	236 7726	4010
21 Mar (80)	3 Tues	3	52	23	23 Feb (54)	5 Thur	9846 2055	6 5921	205 9493	4011
21 Mar (80)	4 Wed	10	4	32	14 Mar (73)	4 Wed	9880 8879	942 5855	257 2597	4012
21 Mar (80)	5 Thur	16	16	41	4 Mar (63)	2 Mon	95 2428	826 1212	229 1743	4013
20 Mar (80)	6 Fn .	22	28	50	22 Feb (53)	O Sat .	309 5975	709 6569	201 0889	4014
21 Mar (80)	1 Sun .	4	40	59	11 Mar (70)	5 Thur	5 6479	609 3587	249 6615	4015
21 Mar (80)	2 Mon	10	53	8	28 Feb (59)	2 Mon	9881 3708	456 6028	218 8383	4016
21 Mar (80)	3 Tues	17	5	17	19 Mar (78)	1 Sun .	9916 0531	392 5962	270-1487	4017
20 Mar (80)	4 Wed.	23	17	26	7 Mar (67)	5 Thur.	9791 7760	239 8403	239 3256	4018
21 Mar. (80)	6 Fri	5	29	35	25 Feb (56)	3 Tues	6 1309	123 3760	211 2401	4019
21 Mar (80)	0 Sat .	11	41	44	16 Mar. (75)	2 Mon .	40 8133	59 3695	262 5505	4020
21 Mar (80)	1 Sun .	17	53	53	5 Mar (64)	6 Fn .	9916 5360	906 6135	231 6273	4021
21 Mar. (81)	3 Tues.	0	6	2	23 Feb (54)	4 Wed	130 8909	790 1493	203 6419	4022

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						CONC	URRENT	YEA	R				1
1 2 3 3a 4 5 6 7 8 4023 844 979 328 96 97 921-22 15 Vyisha 16 Chitrabhānu . 4024 845 980 320 97 98 922-23 16 Chitrabhānu . 4025 846 981 330 98-99 922 24 17 Subhānu . 4026 847 982 331 99 100 *924-25 18 Tārana . 4027 848 983 332 100 01 925 26 19 Pārthīva . 4028 849 984 333 101-02 926 27 20 Vyaya . 4029 850 985 334 102-03 927-28 21 Sarvajīt . 4030 851 986 335 103 04 *928-29 22 Sarvadhārin . 4031 852 987 336 104-05 929 30 23 Virōdhin . 4032 853 988 337 105 06 930 31 24 Vikrīta . 4033 854 989 338 106 07 931-32 25 Khara . 4034 855 990 339 107-08 *932 33 26 Nandana . 4035 856 991 340 108 09 933 34 27 Vijaya . 28 Jaya . 4036 857 992 341 109-10 934-35 28 Jaya . 4037 858 993 342 110-11 935 36 29 Manmatha . 4039 860 995 344 112-13 937-38 31 HCmalamba . 4040 861 996 345 111-14 938 39 32 Vilamba . 34 987 346 114-15 939-40 33 Vikārin . 34 987 34 987 346 114-15 939-40 33 Vikārin . 34 987 34 987 346 114-15 939-40 33 Vikārin . 34 988 998 347 115-16 *940 41 34 Śārvarin . 35 Playa .				гата					JOVIAN SA	AMY	'ATSAP A	Interculated (adhika) and suppressed (hehaya) true	
1 2 3 3a 4 5 4023 844 979 328 96 97 921-22 15 Vyisha 16 Chitrabhānu	Kalı	Saka		Chartradı Vik	Meshadı solar ın Bengal	Kollam	A D					lunar months	
4024 845 980 329 97 98 922-23 16 Chutrabhānu . 17 Subhānu . 7 Ā4vīnī 4025 846 981 330 98-99 923 24 17 Subhānu . 18 Tārana . 19 Pārthīva . 20 Vyaya 5 Śrāvana 4028 847 982 331 99 100 925 26 19 Pārthīva . 20 Vyaya 5 Śrāvana 4028 849 984 333 101-02 926 27 20 Vyaya . 21 Sarvajīt 4028 850 985 334 102-03 927-28 21 Sarvajīt 22 Sarvadhārīn . 23 Virōdhīn . 24 Vikrīta 4030 851 986 335 103 04 928-29 22 Sarvadhārīn . 23 Virōdhīn . 24 Vikrīta 4031 852 987 336 104-05 929 30 23 Virōdhīn . 24 Vikrīta 4032 853 988 337 105 06 930 31 24 Vikrīta 25 Khara	1	2	_	3	3a	4	5		в		7	8	_
4024 845 980 329 97 98 922-23 16 Chitrabhānu . 17 Subhānu 7 Ā4vina 4025 846 981 330 98-99 923 24 17 Subhānu . 18 Tārana . 19 Pārthiva . 4026 847 982 331 99 100 *924-25 18 Tārana . 19 Pārthiva . . 20 Vyaya . 5 Śrāvana 4027 848 983 332 100 01 925 26 19 Pārthiva . 20 Vyaya . 5 Śrāvana 4028 849 984 333 101-02 926 27 20 Vyaya . 21 Sarvajit 22 Sarvadhārin . 3 Jyīshṭha 4030 851 986 335 103 04 *928-29 22 Sarvadhārin 23 Virōdhin . 3 Jyīshṭha 4031 852 987 336 104-05 929 30 23 Virōdhin . 24 Vikṛita . 25 Khara . 26 Nandana 2 Vai*ākha 4032 853 988 337 105 06 930 31 24 Vikṛita . 25 Khara 26 Nandana 27 Vijaya . 28 Jaya 6 Bhādrapa 4034 855 </td <td>4023</td> <td>84</td> <td>4</td> <td>979</td> <td>328</td> <td>96 97</td> <td>921-22</td> <td>2 1</td> <td>5 Vrislia .</td> <td></td> <td>16 Chitrabhānu .</td> <td></td> <td></td>	4023	84	4	979	328	96 97	921-22	2 1	5 Vrislia .		16 Chitrabhānu .		
18 Tārana 19 Pārthīva 19 Pārthīva 20 Vyaya 21 Sarvajīt 22 Sarvadhārīn 23 Virūdhīn 3 Jyēshthīa 24 Vikrīta 25 Khara 26 Kandana 2 Vaišākha 4034 855 990 339 107-08 *932-35 25 Khara 26 Kandana 27 Vijaya 4036 857 992 341 109-10 934-35 28 Jaya 29 Manmatha 30 Durmukha 4039 860 995 344 112-13 937-38 31 Hēmalamba 32 Vilamba 33 Vikārīn 4041 862 997 346 114-15 939-40 33 Vikārīn 35 Plava 35 Plava 35 Plava 35 Plava 4040 861 998 347 115-16 *940 41 34 Šārvarīn 35 Plava 35 Plava 40 10 Plava 40			- }	980	329	97 98	922-2	3 1	6 Chitrabhānu	.	17 Subhānu	7 Afrina .	
4028 847 982 331 99 100 *924-25 18 Tărana . 19 Părthiva . 20 Vyaya		}	- }			98-99	923 2	4 1	7 Subhānu		18 Tārana .		
4027 848 983 332 100 01 925 26 19 Pārthua . 20 Vyaya . 5 Śrāvana 4028 849 984 333 101-02 926 27 20 Vyaya . 21 Sarvajit . 22 Sarvadhārin . 22 Sarvadhārin . 23 Virōdhin . 23 Virōdhin . 23 Virōdhin . 24 Vikņita . 24 Vikņita . 25 Khara . 25 Khara . 26 Nandana . 2 Vaišākha 4032 853 988 337 105 06 930 31 24 Vikņita . 25 Khara . 26 Nandana . 2 Vaišākha 4033 854 989 338 106 07 931-32 25 Khara . 26 Nandana . 2 Vaišākha 4034 855 990 339 107-08 *932 33 26 Nandana . 27 Vijaya . 28 Jaya 6 Bhādrapa 4035 856 991 340 108 09 933 34 27 Vijaya . 28 Jaya 6 Bhādrapa 4037 858 993 342 110-11 935 36 29 Manmatha 30 Durmukha . 3 Durmukha . 4 Āshūdha 4039 860 995 344 112-13 937-38				982	331	99 10	924-2	5 1	8 Tārana		19 Pārthīva .		1
4028 849 984 333 101-02 926 27 20 Vyaya . 21 Sarvajit 22 Sarvadhārin . 4029 850 985 334 102-03 927-28 21 Sarvajit 22 Sarvadhārin . 23 Virōdhin . 3 Jyēshţha 4030 851 986 335 103 04 *928-29 22 Sarvadhārin . 23 Virōdhin . 3 Jyēshţha 4031 852 987 336 104-05 929 30 23 Virōdhin . 24 Vikţita . 25 Khara . 25 Khara . 25 Khara . 26 Nandana 2 Vaišākha 4033 854 989 338 106 07 931-32 25 Khara 26 Nandana 27 Vijaya . 28 Jaya 6 Bhādrapa 4034 855 990 339 107-08 *932 33 27 Vijaya . 28 Jaya 6 Bhādrapa 4035 856 991 340 108 09 933 34 27 Vijaya . 29 Manmatha 4037 858 993 342 110-11 935 36 29 Manmatha 30 Durmukha . 31 Hēmalamba . 4 Āshūḍha 4038 859 994 343		į .	48	983	332	100 0	925 2	6 1	9 Pärthua		20 Vyaya	5 Śrāvana	.
4030 851 986 335 103 04 *928-29 22 Sarvadhārin 23 Virōdhin . 3 Jyēshtha 4031 852 987 336 104-05 929 30 23 Virōdhin . 24 Vikrita 4032 853 988 337 105 06 930 31 24 Vikrita		- }	49	984	333	101-0	2 926 2	27 2	0 Vyaya		21 Sarvajit		1
4031 852 987 336 104-05 929 30 23 Virōdhin . 24 Vikṛita	402	9 8	350	985	334	1 102-0	3 927-2	28 2	21 Sarvajit		22 Sarvadhärin .		
4032 853 988 337 105 06 930 31 24 Vikrita	403	10	B51	986	33	5 103 (4 *928-	29	22 Sarvadhärin		23 Virödhin .	3 Jyishtha	
4033 854 989 338 106 07 931-32 25 Khara 26 Nandana 2 Vaišākha 4034 855 990 339 107-08 *932 33 26 Nandana 27 Vijaya 4035 856 991 340 108 09 933 34 27 Vijaya 28 Jaya 6 Bhādrapa 4036 857 992 341 109-10 934-35 28 Jaya 29 Manmatha 4037 858 993 342 110-11 935 36 29 Manmatha 30 Durmukha . 4038 859 994 343 111-12 *936-37 30 Durmukha . 31 Hēmalamba . 4 Āshāḍha 4039 860 995 344 112-13 937-38 31 Hēmalamba . 32 Vilamba . 4040 861 996 345 113-14 938 39 32 Vilamba . 33 Vikārin . 4041 862 997 346 114-15 939-40 33 Vikārin . 34 Śārvarin . 3 Jyēshṭha 4042 863 998 347 115-16 *940 41 34 Śārvarin . 35 Playa .	403	31	852	987	7 33	6 104-0	929	30	23 Virödhin	•	24 Vikrita		
4034 855 990 339 107-08 *932 33 26 Nandana 27 Vijaya . 4035 856 991 340 108 09 933 34 27 Vijaya . 28 Jaya 6 Bhādrapa . 4036 857 992 341 109-10 934-35 28 Jaya . 29 Manmatha 4037 858 993 342 110-11 935 36 29 Manmatha . 30 Durmukha 4038 859 994 343 111-12 *936-37 30 Durmukha . 31 Hēmalamba . 4 Āshūḍha 4039 860 995 344 112-13 937-38 31 Hēmalamba . 32 Vilamba 4040 861 996 345 113-14 938 39 32 Vilamba 33 Vikārin 4041 862 997 346 114-15 939-40 33 Vikārin	40	32	853	989	8	7 105	930	31	24 Vikrita .	•	25 Khara		
4035 856 991 340 108 09 933 34 27 Vijaya . 28 Jaya 6 Bhādrapa 4036 857 992 341 109-10 934-35 28 Jaya . 29 Manmatha	40	33	854	98	9 33	38 106	07 931-	.32	25 Khara		26 Nandana	2 Varšākha	
4036 857 992 341 109-10 934-35 28 Jaya . 29 Manmatha	40	34	855	98	0 3	39 107-	08 +932	33				1	
4037 858 993 342 110-11 935 36 29 Manmatha 30 Durmukha	40	35		1		- {	1	1		•		6 Bhādrapada	
4038 859 994 343 111-12 *936-37 30 Durmukha . 31 Hēmalamba . 4 Āshāḍha 4039 860 995 344 112-13 937-38 31 Hēmalamba . 32 Vilamba . 4040 861 996 345 113-14 938 39 32 Vilamba . 33 Vikārin . 4041 862 997 346 114-15 939-40 33 Vikārin . 34 Śārvarin . 3 Jyēshtha 4042 863 998 347 115-16 *940 41 34 Śārvarin . 35 Playa .		٠ ٢			1	}		1	_	٠			
4039 860 995 344 112-13 937-38 31 Hēmalamba . 32 Vilamba . 34 Vilamba . 32 Vilamba . 33 Vikārin . 34 Šārvarin . 34 Šārvarin . 34 Šārvarin . 35 Playa		1			1	}							
4040 861 996 345 113-14 938 39 32 Vilamba . 33 Vikārin . 4041 862 997 346 114-15 939-40 33 Vikārin . 34 Sārvarin . 3 Jyāshthr 4042 863 998 347 115-16 *940 41 34 Sārvarin . 35 Playa		~ {		- 1	- }		1			•	1	• 4 Yanadur	•
4041 862 997 346 114-15 939-40 33 Vikārin . 34 Šārvarin . 3 Jyāshtha 4042 863 998 347 115-16 *940 41 34 Šārvarin 35 Playa				l	}	1			1				
4042 863 998 347 115-16 *940 41 34 Sārvarın 35 Playa			1	- 1	1	3			}		1		
4043 864 999 348 116 17 941-42 35 Plava . 36 Subhakrit 7 Adring		4042	8	63	998	1	- 1	10 41	i .		1		Ĭ
i i i i i i i i i i i i i i i i i i i		4043	1	364	999	348 1	1				. 36 Subhakrit	. 7 Āšvina	
4044 865 1000 349 117-18 942 43 36 Subhakrit . 37 Sobhana .		4044	: 1	865	1000	349 1	17-18 9	42 43	36 Subhakrit		. 37 Sõbhana		
4045 866 1001 350 118-19 943 44 37 Sõbhana 38 Krõdhin .			ì	- }	- 1	350 1	18-19	43 44	37 Sõbhana		38 Krödhin		
			1	1	i	1		44 48	38 Krōdhin		. 39 Viśvāvasu	. 5 Śrāvaņa	•
4047 868 1003 352 120 21 945-46 39 Viśvāvasu 40 Parābhava .		404	1	808	1003	352	20 21 9	145-4	39 Viśvāvasu	1	40 Parābhava		

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			C	017	IENCEMENT (F THE				
S	OLAR YEAR				Luni-solar	YFAR (MEA) Chaitr	n sunrise oi a éugla 1 ei	CIVIL DAY	on which	
Day and month A D	Weck- day	Mi	e of ha-s rant		Day and month A D	Week- day	а	ь	c	Kalı
13	14		17		19 😝	20	23	24	25	1
		н	M	ន						Ì
21 Mar (80)	4 Wed	6	18	11	13 Mar (72)	3 Tues	165 5733	726 1427	254 9523	4023
21 Mar (80)	5 Thur	12	30	20	2 Mar (61)	0 Sat	41 2961	573 3868	224 1290	4024
21 Mar (80)	6 Fri	18	42	29	21 Mar (80)	6 Fri	75 9785	509 3802	275 4395	2025
21 Mar (81)	1 Sun	0	54	38	9 Mar (69)	3 Tues	9951 7014	356 6243	244 6163	4026
21 Mar (80)	2 Mon .	7	6	47	26 Feb (57)	0 Sat	9827 4242	203 8683	213 7931	4027
21 Mar (80)	3 Tues	13	18	56	17 Mar (78)	6 Fri	9862 0966	139 8618	265 1034	4028
21 Mar (80)	4 Wed	19	31	3	7 Mar (66)	4 Wed	76 4614	23 3975	237 0181	4029
21 Mar (81)	6 Fri .	1	43	14	24 Feb (55)	1 Sun	9952 1843	870 6416	206 1949	4030
21 Mar (80)	0 Sat	7	55	23	14 Mar (73)	0 Sat	9986 8666	806 6351	257 5053	4031
21 Mar (80)	1 Sun .	14	7	32	4 Mar (63)	5 Thur	201 2215	690 1707	229 4198	4032
21 Mar (80)	2 Mon	20	19	41	21 Feb (52)	2 Mon	76 9443	537 4148	198 5966	4033
21 Mar (81)	4 Wed	2	31	50	11 Mar (71)	1 Sun	111 6267	473 4083	249 9071	4034
21 Mar (80)	5 Thur	8	43	59	28 Feb (59)	5 Thur	9987 3495	320 6523	219 0839	4035
21 Mar (80)	6 Fri	14	56	8	19 Mar (78)	4 Wed	22 0319	256 6458	270 3942	4036
21 Mar (80)	0 Sat	21	8	17	8 Mar (67)	1 Sun	9897 7548	103 8898	239 5711	4037
21 Mar (81)	2 Mon	3	20	26	26 Feb (57)	6 Frı	112 1097	987 4256	211 4857	4038
21 Mar (80)	3 Tues	9	32	35	16 Mar (75)	5 Thur	146 7920	923 4190	262 7961	4039
21 Mar (80)	4 Wed	15	44	44	5 Mar (64)	2 Mon	22 5148	770 6630	231 9729	4040
21 Mar (80)	5 Thur	21	56	53	23 Feb (54)	0 Sat	236 8697	654 1988	203 8874	4041
21 Mar (81)	O Sat .	4	9	2	12 Mar (72)	5 Thur	9932 9200	553 9006	252 4601	4042
21 Mar (80)	1 Sun	10	21	11	1 Mar (60)	2 Mon	9808 6429	401 1447	221 6368	4043
21 Mar (80)	2 Mon	16	33	20	20 Mar (79)	1 Sun	9843 3253	337 1381	272 9473	4044
21 Mar (80)	3 Tues	22	45	29	9 Mar (68)	5 Thur	9719 0482	184 3821	242 1240	4045
21 Mar (81)	5 Thur	4	57	38	27 Feb. (58)	3 Tues	9933 4029	67 9178	214 0386	4046
21 Mar (80)	6 Fri	111	9	47	17 Mar (76)	2 Mon	9968 0854	3 9113	265 3490	4047

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			ema	year				Jovian Samva	ATSARA	Intercalated (adhika) and suppressed (Lshaya) true
Kalı	Sake	a \	Chartradı Vıkrama	Mēshadı solar ın Bengal	Kollar	A A	D	Southern system	Northern system	lunar months
1	2	—j-	3	3a	4		5	6	7	8
4048	86	69	1004	353	121-	22	946 47	40 Parābhava	41 Plavanga	. 3 Jycshtha
4049	8'	70	1005	354	122	23	947-48	41 Plavanga	42 Kilaka	
4050) 8	371	1006	355	}		948-49	42 Kīlaks .	43 Saumya	
405	1 \ 8	372	1007	}	1	- 1	949-50	43 Saumya	44 Sädhärana	1 Chaitra
405	1	873	1008	1	i	}	950 51	44 Sädhärana 45 Virödhakrit	45 Virödhakrit 46 Paridhāvin	, Camera
403		874	1009	1		27	951-52 *952-53	46 Paridhāvin .	47 Pramādin	5 Srāvana
405	1	875	1010			28	953 54	47 Pramādin	40.7	
400	- }	876 877	101	1	` }	9 30	954 55	48 Ananda	49 Rākshasa	
40	1	878	1	1	1	0 31	955 56	49 Rākshara .		4 Āshādha
	58	879	1	1	1	1 32	*956 57	50 Anala	. 51 Pingala	
46	029	880	10	15 3	64 1	2-33	957-58	51 Pingala	52 Kālayukta	
41	080	881	1 10	16 3	65 1	33 34	958 59	52 Kālayukta	53 Siddhärthi	n . 3 Jyështha .
4	061	889	2 10	17 3	166	34-35	959-60	53 Siddharthin	54 Raudra	
4	200	88	3 10	18 810	367 1	35 36	*960 6	54 Raudra	55 Durmatı	. 7 Āśvina .
	1063	88	į į	l l	1	36 37	961 6	1	56 Dundubhi	
	4064	1	- 1		- 1	37 38	962-6		57 Rudhirödg	
	4065 4066	1	- 1	021	370 371	138 39	963-6			
	4067	}	- }	1023	372	139 40 140 41	*964 (1	59 Krödhans 60 Kshaya	
	4068	1	- 1	1024	373	141 42	966	1	l Prabhava	3 Jyështha
	4069	,	,	1025	374	142 43	967.	1	2 Vibhava	
	4070	0	891	1026	375	143 44	*968		3 Šukla	12 Phâlguna†
	407	١.	892	1027	376	144 45	969.	70 3 Šukla .	4 Pramõda	
	407	2	893	1028	377	145-46	970	71 4 Pramoda	. 5 Prajāpat	a .

[†] See "Remarks" above, on the page preceding the Table

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	Solar ye	AR.			Luni-sola	ur e far (m. Chai	Fan Sunrise Itra Śukla)	of civil da l ends).	Y ON WHICH	
Day and month A. D	Week-day			f true sain	Day and month, A	Week day	a	6	c	Kal
13	14	1	17	'	19	20	23	24	25	1
21 Mar (80) 21 Mar (80) 21 Mar (81)	0 Sat . 1 Sun 3 Tues	H 17 23	21 34	56 5	7 Mar (66) 24 Feb (55) 14 Mar (74)	0 Sat 4 Wed 3 Tues	182 4402 58 1630 92 8454	734 6910	206 440	4048
21 Mar (80) 21 Mar (80)	4 Wed 5 Thur	11	58	22	3 Mar (62) 20 Feb (51)	0 Sat 4 Wed	9968 5683 9844 3112			i
22 Mar (81) 21 Mar (81)	0 Sat 1 Sun	0	34	49	11 Mar (70) 28 Fob (59)	3 Tues 0 Sat	9878 9735 9754 6963	148 4102	216 5916	4054
21 Mar (80) 21 Mar (80) 22 Mar (81)	2 Mon 3 Tues 5 Thur	12 18 1		58 7 16	18 Mar (77) 8 Mar (67) 26 Feb (57)	6 Fri 4 Wed 2 Mon	9789 3787 3 7335 218 0884	84 4037 967 9394 851 4750	267 9020 239 8167 211 7312	4055 4056 4057
21 Mar (81) 21 Mar (80)	6 Fm . 0 Sat .	7 13	23 35	25 34	10 Mar (76) 5 Mar (64)	1 Sun 5 Thur	252 7708 128 4936	787 4685 634 7125	263 0416 232 2184	4058 4059
21 Mar (80) 22 Mar (81) 21 Mar (81)	1 Sun . 3 Tues 4 Wed	19	47 59 12	43 52 1	22 Feb (53) 13 Mar (72) 1 Mar (61)	2 Mon 1 Sun 5 Thur	4 2164 38 8988 9914 6217	481 9566 417 9502 265 1942	201 3952 252 7056 221 8823	4060 4061 4062
1 Mar (80)	5 Thur 6 Fri	14 20	24 36	10	20 Mar (79) 9 Mar (68)	4 Wed	9949 3040 9825 0269	201 1877 48 5316	273 1828	4063 4064
2 Mar (81) 1 Mar (81)	1 Sun 2 Mon	2 9	48 0	28 37	27 Feb (55) 17 Mar (77)	6 Fri 5 Thur	39 3817 74 0642	931 9674 867 9608	265 5946	4065 4066
1 Mar (80) 1 Mar (80) 2 Mar (81)	3 Tues 4 Wed 6 Fri	15 21 3	12 24 37	46 55 4	7 Mar (66) 24 Feb (55) 15 Mar (74)	3 Tues. 0 Sat . 6 Fr	288 4189 -164 1418 198 8042	751 4956 598 7406 534 7341	206 6860	1067 1068 1069
1 Mar (81) 1 Mar (80) 1 Mar (80)	0 Sat 1 Sun	9 16	49 1	- 1	3 Mar (63) 21 Mar (80) 11 Mar (70)	3 Tues 1 Sun	74 5470 9770 5974 9984 9522	381 9782 281 6799 616 2156	275 7458 4	1070 1071 1072

TABLE

				CONCU	JRRENT Y	TEAR		
		71krama	lar year			JOVIAN SA	DIV ATSAPA	Interestated (adhika) and suppress d (Frhaya) truo
Kalı	Saka	Chaıtrādı Vıkrams	Mësh'idi solar i in Bengal	Kollam	A D	Southern system	Northern system.	lunar months.
1	2	3	3a	4	5	6	7	8
4073	894	1029	378	146 47	971 72	5 Prajāpatı .	6 Angiras .	5 Srāvana .
4074	895	1030	379	147-48	*972 73	6 Angiras .	7 Śrimukha .	
4075	896	1031	380	148 49	973 74	7 Srimukha	8 Bhāva	
4076	897	1032	381	149 50	974-75	8 Bhāva	9 kuvan .	4 Āshādha .
4077	898	1033	382	150 51	975-76	9 Yuvan .	10 Dhātri	
4078	899	1034	383	151 52	* 976 77	10 Dhātri .	11 Isram	
4079	900	1035	384	152 53	977-78	11 Iévara	12 Bahudhānya	2 Vassākha .
4080	901	1036	385	-153 54	978 79	12 Bahudhānya .	13 Tramathın .	•
4081	902	1037	386	154-55	979 80	13 Pramāthin	14 Vikrama .	6 Bhādrapada
4082	903	1038	387	155-56	*980 81	14 Vikrama	15 Vrisha	
4083	904	1039	388	156 57	981 82	15 Vrisha .	16 Chitrabhanu .	
4084	905	1040	389	157 58	982-83	16 Chitrabhanu .	17 Subhānu .	4 Āshādha†† .
4085	900	1041	390	158 59	983 84	17 Subhānu .	18 Tārana .	
4086	907	1042	391	159 60	*984 85	18 Tārana	19 Pārthiva .	
4087 4088	908	1043	392	160 61	985 86	19 Pārthıva .	20 Vyaya .	3 Jyështha .
4089	909	1044	393	161 62	986 87	20 Vyaya .	21 Sarvajit .	
4090		1045	394	162 63	987-88	21 Sarvajit	22 Sarvadhārın	
4091		}	395	163 64	*988 89	22 Sarvadhārın	23 Virodhin	1 Chaitra
4092			396	164 65	989-90		24 Vikrita† .	
4093			1	165-68	990 91	24 Vikrita		5 Srāvana
4094	1	1	1	1	991 92		27 Vijaya	
4098	916	1	1	1	*992 93	1	1	
4098	917	i i	1		993 94 994-95	1	29 Manmatha	4 Äshādha
4097	918	1053	i	1	995 96	1	30 Durmukha	
	-		1	nt i	299 AB	29 Manmatha	31 Hēmalamba .	

^{† 25} Khara was suppressed in the north †} See "Ren.arks" on page preceding the Table.

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No 11]

				COM	MENCEMENT	OF THE				
8	Solar year				Lumi-solar	YEAR (MEAN CHAITR	s sunrise oi A śurla 1 e:	f civil day nds)	on which	
Day and month A D	Week- day	Mě	e of that rant	am-	Day and month A D.	Weok- day	а	ь	с	Kab
13	14	_	17		19	20	23	24	25	1
		H	M.	s					<u> </u>	1-
22 Mar (81)	4 Wed	4	25	40	28 Feb. (59)	3 Tues	9860 6751	12 451-	217 8372	4073
21 Mar. (81)	5 Thur	10	37	49	18 Mar (78)	2 Mon	9895 3574	948 4532	268 0475	4074
21 Mar (80)	6 Fri	16	49	58	8 Mar (67)	0 Sat .	109 7123	831 9889	240 0622	4075
21 Mar (80)	0 Sat	23	2	7	25 Feb (56)††	4 Wed.	9985 4352	679 2329	209 2390	4076
22 Mar (81)	2 Mon	5	14	16	16 Mar. (75)	3 Tues	20 1175	015 2264	260 5494	4077
21 Mar (81)	3 Tues	11	26	25	4 Mar (64)	0 Sat	9895 8404	462-4704	229 7261	4078
21 Mar (80)	4 Wed	17	38	34	21 Feb (52)	4 Wed .	9771 5632	309 7145	198 9029	4079
21 Mar (80)	5 Thur	23	50	43	12 Mar (71)	3 Tues .	9806 2458	245 7080	250 2134	4080
22 Mar (81)	0 Sat .	6	2	52	2 Mar (61)	1 Sun .	20 6001	129 2437	222 1279	4081
21 Mar (81)	1 Sun	12	15	1	20 Mar (80)	0 Sat	55 2828	65 2372	273 4383	4082
21 Mar (80)	2 Mon	18	27	10	9 Mar (68)	4 Wed •	9931 0057	912 4811	242 6151	4083
22 Mar (81)	4 Wed	0	39	19	27 Feb (58)	2 Mon •	145 3605	796 0169	214 5298	4084
22 Mar (81)	5 Thur	6	51	28	18 Mar (77)	1 Sun •	180 0429	732 0103	265 8401	4085
21 Mar (81)	6 Trı	13	3	37	6 Mar (66)	5 Thur, •	55 7657	579 2544	235 0169	4088
21 Mar (80)	0 Sat .	19	15	46	23 Feb (54)	2 Mon ·	9931 4886	426 4985	204 1937	4087
22 Mar (81)	2 Mon	1	27	55	11 Mar (73)	1 Sun ·	9966 1709	362 4919	255 5042	4088
22 Mar (81)	3 Tues	7	40	4	3 Mar (62)	5 Thur	9841 8938	209 7360	224 6809	4089
21 Mar. (81)	4 Wed	13	52	13	21 Feb (52)	3 Tues	56 2487	93 2717	196 5954	4090
21 Mar (80)	5 Thur	20	4	22	11 Mar (70)	2 Mon	90 8310	29 2651	247 9059	409
22 Mar (81)	0 Sat	2	16	31	28 Feb (59)	6 Frı	9966 0538	878 5093	217 0828	4092
22 Mar. (81)	1 Sun .	8	28	40	19 Mar (78)	5 Thur	1 3372	812 5027	268 3931	4093
21 Mar (81)	2 Mon	14	40	49	8 M2r (68)	3 Tues	215 6911	096 0384	240 3077	4094
21 Mar (80)	3 Tues	20	52	58	25 Fob (56)	0 Sat	91 4130	543 2825	209 4845	4095
22 Mar (81)	5 Thur	3	5	6	16 Mar (75)	6 Frı	126 0953	479 2759	260 7950	4096
22 Mar (81)	6 Fra .	9	17	15	5 Mar (64)	3 Tues	1 8192	326 5199	229 9717	4097

TABLE

					CONCU	RRENT Y	EAR.				
		Vikrama		r year			Jovian S	M	V ATSARA		Interestated (adhika) and suppressed
Kalı	Saka	Chartrada Va		Mesnadi somr in Bengal	Kollam	A D.	Southern system.		Northern system		(L'haya) trur lun ir months
1	2	3		3a	4	5	6		7		8
4098 4099	919	}	5 4	403 404	171-72	*996 97	30 Durmukha 31 Hčmalamba	•	32 Vilamba 33 Vikārin	•	2 Vaisākha .
4100	921	1	56	405	173 74	998 99	32 Vilamba		34 Sārvarın		6 Bhādrapada
4101	922	1	057	406	174 75	999 1000	33 Vikārin		35 Playa .		o Dindiajada
4102	923	10	058	407	175-76	*1000 01	04 65		36 Subhakrit		•
4103	924	. 10	059	408	176 77	1001-02	35 Plava .		37 Söbhana		5 Sravanat .
4104	926	10	060	409	177-78	1002 03	36 Subhakrit		38 Krödhin		
4105	92	3 1	061	410	178-79	1003 04	37 Söbhana	-	39 Višvāvasu		
4106	5 92	7 1	.062	411	179 80	*1004 05	38 Krödhin		40 Parābhava		3 Jyështha .
410	7 92	8 1	1063	412	180-81	1005 06	39 Viévārasu		41 Plavanga	•	
410	8 92	9] 1	1064	413	181 82	1006 07	40 Paräbhava		42 Kilaka .	5	8 Kürttika } 9 <i>Māsgaš</i> (ksh) }
410	}		1065	414	182 83	1007 08	41 Plavanga		43 Saumya	•	1 Chartra
41)	1	- 1	1066	415	-52 52	*1008 09	42 Kīlaka	•	44 Sādhārana		
411		- 1	1067	416		1009-10	43 Saumya		45 Virödhakrit	•	5 Srāvana .
		33	1068	417	1	1010 11	44 Sādhārana	•	46 Paridhävin		
	l	35	1069 1070	418	1	1011-12	Indunatio		47 Pramadın		
		36	1071	1					48 Ānanda		4 Āshādha .
		37	1072	4	1				49 Rākshasa		•
41	117	938	1073	1	1	1			50 Anala	•	•
4	118	939	*074	t	- 1	1	}	•	} B		2 Vaišākba
4	119	940	1075	42	1	}		•	1		o pur
4	120	941	1076	3 42	25 193 94	(•	1 .	•	6 Bhūdrapada
	1	942	1077	7 42	26 194 95	1019 20	1	•	55 Durmati	٠	
4	122	943	107	8 42	27 195 96	*1020 2			56 Dundubhi	•	5 Śrāvana†

[†] See "Remarks" on page preceding the Table

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			(COM	MENCEMENT	OF THE				
	Solar 11A1	l.			Luni-solar		n sunrisc of A surla 1 e		on which	
Day and month A D	Week- day	Mêr	e of tha s ränt		Day and month A D	Week day	а	6	c	Kalı
13	14	`—— 	17		19	20	23	24	25	1
		H	M	8			<u> </u>			1
21 Mar (81)	0 Sat .	15	29	24	22 Feb (53)	0 Sat	9877 5419	173 7640	199 1484	4098
21 Var (80)	1 Sun .	21	41	33	12 Mar (71)	6 Fn	9912 2243	109 7575	251 4589	4099
22 Mar (81)	3 Tues	3	53	42	2 Mar (61)	4 Wed .	126 5792	993 2933	222 3735	4100
22 Mar (81)	4 Wed	10	5	51	21 Mar (80)	3 Tues	161 2616	929 2867	273 6618	4101
21 Mar (81)	5 Thur	16	18	0	9 Mar (69)	0 Sat	36 9845	776 5307	242 8385	4102
21 Mar (80)	6 Trı	22	30	9	27 Feb (58)	5 Thur	251 3393	660 0664	214 7531	4103
22 Mar (81)	1 Sun .	4	42	18	17 Mar (76)	3 Tues	9947 3897	559 7683	263 3257	4104
22 Mar (81)	2 Mon	10	54	27	6 Mar (65)	0 Sat	9823 1125	407 0122	232 5025	4105
21 Mar (81)	3 Tues	17	6	36	24 Feb (55)	5 Thur	37 4674	290 5480	204 4171	4105
21 Mar (80)	4 Wed	23	1.8	45	13 Mar (72)	3 Tues	9733 5177	190 2498	253 9897	4107
22 Mar (81)	6 Fr	5	30	54	3 Mar (62)	1 Sun .	9947 8726	73 7855	224 9042	4108
22 Mar (81)	0 Sat .	11	43	3	21 Fcb (52)	6 Frı	162 2275	957 3273	196 8189	4109
21 Mar (81)	1 Sun	17	55	12	11 Mar (71)	5 Thur	196 9097	893 3146	248 1293	4110
22 Mar (81)	3 Tues	0	7	21	28 Feb (59)	2 Mon	72 6326	740 5588	217 3061	4111
22 Mar (81)	4 Wed	6	19	30	19 Mar (78)	1 Sun	107 3140	676 5522	268 6164	4112
22 Mar (81)	5 Thur	12	31	39	8 Mar (67)	5 Thur	9983 0379	523 7962	237 7933	4113
21 Mar (81)	6 Fri .	18	43	-4 8	25 Feb (56)	2 Mon	9858 7607	371 0403	206 9701	4114
22 Mar (81)	1 Sun	0	55	57	15 Mar (74)	1 Sun .	9893 4431	307 0338	258 2805	4115
22 Mar (81)	2 Mon .	7	8	6	4 Mar (63)	5 Thur	9769 1660	154 2779	227 4572	4116
22 Mar (81)	3 Tues	13	20	15	22 Feb (53)	3 Tues	9983 5207	37 8125	199 3718	4117
21 Mar (81)	4 Wed	19	32	24	12 Mar (72)	2 Mon	18 2031	973 8070	250 6823	4118
22 Mar (81)	6 Fri .	1	44	33	2 Mar (61)	0 Sat	232 5580	857 3427	222 5968	4119
22 Mar (81)	0 Sat .	7	56	42	21 Mar (80)	6 Fri	267 2404	793 3362	273 9072	4120
22 Mar (81)	1 Sun	14	8	51	10 Mar (69)	3 Tues	142 9632	640 5802	243 0840	4121
21 Mar (81)	2 Mon	20	21	0	27 Feb (58)	0 Sat	18 6860	487-8243	212 2609	4122

		YEAR	URRENT	CONC				
Intercalated (adhika) and suppressed	Myatsara	Jovien Sa			lar year	Vikrama		
(kshaya) true Iunar months	Northern system	Southern system	A D	Kollam.	Mëshadı solar y m Bengal	Chaitrādi V	Śaka	Kalı
8	7	6	5	4	3a	3	2	1
	57 Rudhırödgârın	55 Durmatı	1021-22	196-97	428	1079	944	4123
	58 Raktāksha	56 Dundubhi	1022 23	197-98	429	1080	945	4124
2 Torabet	59 Krōdhana	57 Rudhírödgārın	1023-24	198-99	430	1081	946	4125
3 Jyčshtha	60 Kahama	58 Raktāksha	*1024-25	199 200	431	1082	947	4126
7 Āśvina	I Prabhava	59 Krödhana	1025 26	200-01	432	1083	948	4127
10 Pausha (Lsh)	2 Vibhava	60 Kshaya	1026-27	201-02	433	1084	949	4128
1 Chartra	2 Vibhava	l Prabhava	1027-28	202 03	434	1085	950	4129
		2 Vibhava	*1028-29	203 04	435	1086	951	4130
5 Śrāvana	4 Pramöda	3 Sukla	1029-30	204-05	436	1087	952	4131
•	5 Prajāpatı	4 Pramoda	1030 31	205 06	437	1088	953	4132
•	6 Anguras	5 Prajapati	1031 32	206 07	438	1089	954	4133
3 Jyështha .	7 Śrimukha	6 Angiras	*1032-33	207-08	439	1090	955	4134
•	8 Bhāva	7 Śrimukha	1033 34	208 09	440	1091	956	4135
	9 Yuvan	8 Bhāva	1034 35	209-10	441	1092	937	4136
2 Vaišākha .	10 Dhätri .	9 Yuvan	1035-36	210 11	442	1093	958	4137
	11 Iśvara	10 Dhātri .	*1036 37	211-12	443	1094	939	4138
6 Bhadrapada	12 Bahudhānya	11 Isvara	1037 38	212-13	411	1095	960	4139
	13 Pramāthın	12 Bahudhānya	1038 39	213 14	445	1096	1	4140
••	14 Vikrama	13 Pramäthin	1039-40	214-15	446	1097	1	4141
4 Āshāḍha .	15 Vrisha	14 Vikrama	*1040 41	215-16	447	1098	1	4142
•	16 Chitrabhanu	15 Vrisha	1041 42	216-17	448	1099		4143
	17 Subhānu	16 Chitrabhanu	1012-43	£17-18	449	1	1	*144
3 Jyeshtha .	18 Tārana	17 Subhānu	1043-44	218-19	450	1101	1	4145
	19 Parthiva	18 Tārana .	*1011-45	219 20	451	1102	1	4146
7 Āivina .	20 Vyaya 21 Sarvajit	19 Pārthīva	1045-46	220-21	452	1103	068	4147

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				•	CO'IMENCEM	ENT OF T	CHE			
	Solar year	r			LUNI SOLA	P 1 EAP (ME CHAIT	ar Sunkisf Tra furla l	of civil da Ends)	r on which	
Day and month A D.	Week- day	Me	me oi Ish i Krān		Day and month A D	Weck-	a	6	¢	Kah
13	14	İ	17		19	20	23	24	25	1
22 Mar (81)	4 Wed.	H 2	M 33	S 9	17 Mar (76)	6 Fri	53 3685	423 8178	263 309	4123
22 Mar (81)	5 Thur	8	45	18	6 Mar (65)	3 Tues	9929-0902	271 0618	232 748	4124
22 Mar (81)	6 Fri	14	57	27	23 Feb (54)	0 Sat	9804 8141	118 3068	201 9238	4125
21 Mar (S1)	0 Sat .	21	9	36	13 Mar (73)	6 Frı	9839 4965	54 2993	253 2353	4126
22 Mar (81)	2 Mon	3	21	45	3 Mar (62)	1 Wed	53 8514	937 8350	225 0498	4127
22 Mar (81)	3 Tues	9	33	54	21 Fcb (52)	2 Mon	268 2062	821 3708	197 0643	4128
22 Mar (81)	4 Wed	15	46	3	12 Mar (71)	1 Sun	302 8885	757 3642	248 3748	4129
21 Mar (81)	5 Thur -	21	58	12	29 Feb (60)	5 Thur	178 6114	604 6082	217 5517	4130
22 Mar (81)	0 Sat	4	10	21	19 Mar (78)	4 Wed	213 2937	540 6018	268 8620	4131
22 Mar (81)	I Sun	10	22	30	8 Mar (67)	I Sun.	89 0166	387 8457	238 0388	4132
22 Mar (81)	2 Mon	16	34	39	25 Feb (56)	5 Thur	9964 7395	235 0898	207 2156	4133
21 Mar (81)	3 Tues	22	46	48	15 Mar (75)	4 Wed	9999 4219	171 0833	258 5271	1134
22 Mar (81)	5 Thur	4	58	57	4 Mar (63)	1 Sun	9875 1447	17 3274	227 7028	4135
22 Mar (81)	6 Frs .	11	11	6	22 Feb (53)	6 Frı	89 4995	901 8631	199 6173	4136
22 Mar (81)	0 Sat	17	23	5	13 Mar (72)	5 Thur	124 1819	837 8565	250 4278	4137
21 Mar (81)	1 Sun .	2.3	35	24	1 Mar (61)	2 Mon	9999 9048	685 1006	219 6046	4139
22 Mar (81)	3 Tues	5	47	33	20 Mar (79)	1 Sun	34 5871	621 0940	271 4150	4139
22 Mar (81)	4 Wed	11	59	42	9 Mar (68)	5 Thur	9910 3100	468 3381	239 5919	4110
22 Mar (81)	5 Thur	18	11	50	26 Feb (57)	2 Mon	9786 0329	315 5822	209 7686	4141
22 Mar (82)	0 Sat	0	23	59	16 Mar (76)	1 Sun	9820 7152	251 5756	261 0791	4142
22 Mar (81)	1 Sun	6	36	8	6 Mar (65)	6 Fri	35 0700	1 45 1113	232 9936	4143
22 Mar (81)	2 Mon	12	48	17	23 Feb (54)	3 Tues	9910 7929	982 3553	202 1704	4144
22 Mar (81)	3 Tues	19	0	26	14 Mar (73)	2 Mon	9945 4753	918 3478	253 4808	4145
22 Mar (82)	5 Thur	1	12	35	3 Mar (63)	0 Sat .	159 8391	801 8845		4146
22 Mar (81)	6 Fri	7	24	44	22 Mar (81)	6 Frı	194 5125	737 8780	276 7058	4147

Southern system Southern s				EAR	RRENT Y	CONCU				
Southern system Southern s	(adhila) and suppressed		n atsara.	Jovian Sam			r year	crama		
453					A D	Kollam	Meshadı sola ın Bengal	Chaitrādi Vikrama	aka	Kah
454 222 23 1047-48 21 Sarvajīt . 23 Virodhin . 5 Śrāvana . 455 223 24 *1048 49 22 Sarvadhārm . 24 Vikņīta . 25 Khara	8		7	6	5	4	3a	3	2	1
455 223 24 *1048 49 22 Sarvadhārm 24 Vikrita		a .	22 Sarvadhärin	20 Vyaya .	1046 47	221 22	453	1104	969	4148
456 224 25 1049 50 23 Virōdhin 25 Khara	5 Srāvana .	.	23 Virodhin	21 Sarvajit .	1047-48	222 23	454	1105	970	4149
457 225 26 1050 51 24 Vikrita 26 Nandana 3 Jyčshtha			24 Vikrita	22 Sarvadhārın	*1048 49	223 24	455	1106	971	4150
458 226 27 1051-52 25 Khara . 27 Vijaya	•		25 Khara	23 Virödhin	1049 50	224 25	456	1107	972	4151
459 227-28 *1052 53 26 Nandana . 28 Jaya	3 Jyështha .		26 Nandana	24 Vikrita	1050 51	225 26	457	1108	973	4152
460 228 29 1053-54 27 Vijaya	••		27 Vijaya	25 Khara .	1051-52	226 27	458	1109	974	4153
461 229 30 1054 55 28 Jaya 30 Durmukha	••		28 Jaya .	26 Nandana .	*1052 53	227-28	459	1110	975	4154
462 230 31 1055-56 29 Manmatha . 31 Hēmalamba . 6 Bhādrapada 463 231-32 *1056 57 30 Durmukha . 32 Vilamba	2 Vaišākha .	$ \cdot $	29 Manmatha	27 Vijaya	1053-54	228 29	460	1111	976	4155
463 231-32 *1056 57 30 Durmukha . 32 Vilamba	• •		30 Durmukha	28 Jaya	1054 55	229 30	461	1112	977	4156
464 232-33 1057-58 31 Hēmalamba . 33 Vikārin . 4 Āshādha . 465 233 34 1058 59 32 Vilamba . 34 Śārvarin . 4 Āshādha . 466 234-35 1059-60 33 Vikārin . 35 Plava	6 Bhādrapada	a .]	31 Hēmalamba	29 Manmatha	1055-56	230 31	462	1113	978	4157
465 233 34 1058 59 32 Vilamba . 34 Śārvarin . 4 Āshādha . 466 234-35 1059-60 33 Vikārin . 35 Plava	•		32 Vilamba	30 Durmukha .	*1056 57	231-32	463	1114	979	4158
466 234-35 1059-60 33 Vikārin . 35 Plava . 467 235 36 *1060 61 34 Sārvarin 36 Subhakrit . 468 236 37 1061-62 35 Plava . 37 Sōbhana . 469 237-38 1062 63 36 Subhakrit . 38 Krōdhin 470 238 39 1003 64 37 Sōbhana 39 Visvāvasu . 471 239 40 *1064 65 38 Krodhin . 40 Parābhava 472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 474 242 43 1067-68 41 Plavanga . 43 Saumya 475 243 44 *1068 69 42 Kīlaka . 44 Sādhārapa	••		33 Vikārin	31 Hēmalamba .	1057-58	232-33	404	1115	980	4159
467 235 36 *1060 61 34 Särvarın 36 Subhakrıt . 468 236 37 1061-62 35 Plava . 37 Söbhana . 3 Jyështha 469 237-38 1062 63 36 Subhakrıt . . 38 Krödhin . 470 238 39 1063 64 37 Söbhana . 39 Vısvāvasu . 7 Aśvina 471 239 40 *1064 65 38 Krodhin . 40 Parābhava . . 41 Plavanga . 472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga . . . 5 Srāvaņa 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Srāvaņa 474 242 43 1067-68 41 Plavanga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka . . 44 Sādhāraņa .	4 Āshādha .		34 Śārvarın	32 Vilamba .	1058 59	233 34		1116	981	4160
468 236 37 1061-62 35 Plava . 37 Sōbhana . 3 Jyështha . 469 237-38 1062 63 36 Subhakrit . 38 Krōdhin . 39 Visvāvasu . 7 Āśvina . 470 238 39 1063 64 37 Sōbhana . 40 Parābhava . 40 Parābhava . 41 Plavanga . 472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga . 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Śrāvaṇa . 474 242 43 1067-68 41 Plavanga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka 44 Sādhāraṇa .		- 3		1	1 -000			1117	982	4161
469 237-38 1062 63 36 Subhakrit . 38 Krödhin . 39 Visvāvasu . 7 Āśvina . 470 238 39 1063 64 37 Śöbhana. 39 Visvāvasu . 7 Āśvina . 471 239 40 *1064 65 38 Krödhin . 40 Parābhava . 41 Plavanga . 472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga . 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Śrāvaņa . 474 242 43 1067-68 41 Plavanga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka 44 Sādhāraņa			36 Subhakrit	34 Särvarın	*1060 61		1		983	4162
470 238 39 1003 64 37 Šōbhana. 39 Visvāvasu . 7 Āśvina 471 239 40 *1064 65 38 Krodhin . 40 Parābhava . 472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga . 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Śrāvaņa 474 242 43 1067-68 41 Plavanga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka 44 Sādhāraņa .	3 Jyështha .	•	37 Sõbhana		1		- 1	1	984	4163
471 239 40 *1064 65 38 Krodhin . 40 Parābhava	• •		-		1		1	1	1	4164
472 240 41 1065-66 39 Viśvāvasu . 41 Plavanga . 473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Śrāvaṇa 474 242 43 1067-68 41 Plavaṅga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka . 44 Sādhāraṇa . 476 244 45 1069 70 49 G	7 Aśvina		1	ì			1		1	4165 4160
473 241 42 1066 67 40 Parābhava . 42 Kīlaka . 5 Śrāvaņa 474 242 43 1067-68 41 Plavanga . 43 Saumya . 475 243 44 *1068 69 42 Kīlaka 44 Sādhāraņa .	••		Į.	1			1	1		4167
474 242 43 1067-68 41 Plavanga . 43 Saumya	ì	•		1	1			1		4168
475 243 44 *1068 69 42 Kilaka 44 Sādhāraņa .	5 Śrāvaņa		1	1	1		1	3	1	416
478 244 45 1000 TO 40 TO							1	} """	i	417
*'V ~33 40 1009 70 43 Saumva				40.5			1	- 1	1 79	417
Jo vilodnakit . S Jyeshtha .	3 Jyështha		[44.6-11-		1		3 11:	2 79	417

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	·····			COM	MENCEMENT	OF THE				
8	SOLAB LEAR	t.			Luni solar	YEAR (MEA CHAITR	N SUNRISE O A ŚUKLA 1 1	F CIVIL DAY ENDS)	ои мпісп	Kalı
Dry and month A. D	Week- day	Mēs	o of t sha sa ränti	m.	Day and month, A D	Week- day	а	b	c	
13	14	-	17		19	20	23	24	25	1
22 Mar (81)	0 Sat .	H 13	M 36	S 53	11 Mar (70)	3 Tues	70 2354	585 1221	245 8826	4148
22 Mar (81)	1 Sun .	19	49	2	28 Feb (59)	0 Sat	9945 9581	432 3661	215 0594	4149
22 Mar (82)	3 Tues	2	1	11	18 Mar (78)	6 Fri	9980 6406	368 3596	200 3697	4150
22 Mar (81)	4 Wed .	8	13	20	7 Mar (66)	3 Tues .	9856 3634	215 6036	235 5466	4151
22 Mar (81)	5 Thur	14	25	29	25 Feb (56)	1 Sun	70 7183	99 1393	207 7536	4152
22 Mar (81)	6 Fri .	20	37	38	16 Mar (75)	0 Sat	105 4006	35 1328	258 7716	4153
22 Mar (82)	1 Sun .	2	49	47	4 Mar (64)	4 Wed	9081 1235	882 3769	227 9483	4154
22 Mar (81)	2 Mon .	0	1	56	22 Feb (53)	2 Mon	195 4783	767 9126	199 8629	4155
22 Mar (81)	3 Tues .	15	14	5	13 Mar (72)	1 Sun .	230 1606	701 9061	251 1734	4156
22 Mar (81)	4 Wed	21	26	14	2 Mar (61)	5 Thur	105 8835	549 1501	220 3501	4157
22 Mar (82)	6 Fri .	3	38	23	20 Mar (80)	4 Wed	140 5659	485 1435	271-6605	4158
22 Mar (81)	0 Sat .	9	50	32	9 Mar (68)	1 Sun .	16 2888	333 3876	240 8375	4159
22 Mar (81)	1 Sun	16	2	41	26 Feb (57)	5 Thur	9892 0116	179 6317	210 0142	4160
22 Mar (81)	2 Mon	22	14	50	17 Mar (76)	4 Wod	9926,6940	115 6452	261 3246	4161
22 Mar (82)	4 Wed	4	26	59	6 Mar (66)	2 Mon .	141 0488	999 1608	233 2391	4162
22 Mar (81)	5 Thur	10	39	8	23 Feb (54)	6 Fn.	16 7716	856 4049	202 4159	4163
22 Mar (81)	6 Fri .	16	51	17	14 Mar (73)	5 Thur	51 4540	782 3983	253 7264	4164
22 Mar (81)	0 Sat	23	3	26	4 Mar (63)	3 Tues	265 8089	665 9341	225 6409	4165
22 Mar (82)	2 Mon	5	15	35	21 Mar. (81)	1 Sun .	9961 8593	565 6363	274 2135	4166
22 Mar (81)	3 Tues	11	27	44	10 Mar (69)	5 Thur	9837 5821	412 8799	243 3903	4167
22 Mar (81)	4 Wed	17	39	53	28 Feb (59)	3 Tues.	51 9369	296 4157	215 3050	4168
22 Mar (81)	5 Thur	23	52	2	18 Mar (77)	1 Sun	9747 9874	196 1174	263 8775	4169
22 Mar. (82)	0 Sat .	6	4	11	7 Mar (67)	6 Fr	9962 3421	79 6532	235 7921	4170
22 Mar (81)	1 Sun .	12	16	20	25 Feb (50)	4 Wed	176 6970	963 1888	1	4171
22 Mar (81)	2 Mon	18	28	2 9	16 Mar (75)	3 Tues .	211 3794	899 1823	259 0172	4172

				CONCU	RRENT Y	EAR		
		krams	ar year			Jovian Sad	IVATSARA	Interculated (adhika) and suppressed
Kalı	Saka	Chatrādi Vikrams	Meshadi solar in Bengal	Kollam	A D	Southern system	Northern system	(kshaya) true lunar months
1	2	3	3a	4	5	6	7	8
4173	994	1129	478	246 47	1071 72	45 Vırödhakrıt .	47 Pramādin {	S Kārttika . } 9 Mārgas (Leh)
4174	995	1130	479	247-48	*1072 73	46 Parıdhävın .	48 Ananda .	2 Varsākha
4175	996	1131	480	248 49	1073 74	47 Pramādin .	49 Rükshasa	
4176	997	1132	481	249 50	1074 75	48 Ānanda .	50 Anala† .	6 Bhadrapada
4177	998	1133	482	250 51	1075-76	49 Rākshasa .	52 Kālayukta	
4178	999	1134	483	251 52	*1076-77	50 Anala .	53 Siddhārthin	
4179	1000	1135	484	252 53	1077-78	51 Pingala .	54 Raudra	4 Ashādha
4180	1001	1136	485	253 54	1078 79	52 Kālayukta	55 Durmati	
4181	1002	1137	486	254-55	1079 80	53 Siddhärthin .	56 Dundubhs	
4182	1003	1138	487	255 56	*1080 81	54 Raudra .	57 Rudhırödgärın	3 Jyështha .
4183	1001	1139	488	256 57	1081-82	55 Durmata .	58 Raktāksha .	
4184	1	1140	489	257 58	1082 83	56 Dundubhi	59 Krödhana .	7 Asvina .
4185]	1141	490		1083 84	57 Rudhırödgärin	60 Kshaya	
4180		1142	1 -0-		*1084 85	58 Raktāksha	1 Prabhava	
4187)	1	1085 86	59 Krödhana	2 Vrbhava	5 Śrāvaņa .
418		1		1	1086 87	60 Kshaya	3 Sukla	
419	}	1	i		1087 88	1 Prabhava	4 Pramoda .	
419	1	1			*1088 89	2 Vibhava	5 Prajāpata .	3 Jyështha .
419	1				1089-90		6 Angiras	
419	1				1090 91	•	7 Srīmukha	8 Kärttika 10 Pausha (Lsh)
419	4 101	1		1	1		8 Bhāva	1 Chartra
419	5 10h	6 115	1 50				9 Yuvan .	••
41	96 101	7 115	2 50	i	{		10 Dhātrı	6 Bhailravada
41	07 101	8 115	3 50	2 270 71	1		11 Isvara	.,,
	 -	-		+ E3 D	(1)-	suppressed in the pe	12 Bahudhānya .	440

LXXXII-Contd

			(COM	MENCEVENT	OF THE				
5	olab tead	i.			Luri-solar	lear (mfai Chaitr	n bunribe of A śukla I e:	CIVIL DAY (NDS)	N WRICH	
Day and month A D.	Week- day.		e of t ha se ranti	m-	Day and month A. D	Week- day	a	ь	c	K
13	14		17		19	20	23	24	25	1
		н.	M	S	***************************************					
23 Mar (82)	4 Wed.	0	40	38	5 Mar (64)	O Sat .	87 1023	746 4264	228 1939	411
22 Mar (82)	5 Thur	6	62	47	22 Feb (53)	4 Wed	9962 8251	593 6705	197 3706	417
22 Mar (81)	6 Fn	13	4	88	12 Mar (71)	3 Tues	9997 5074	530 6639	248 6811	417
22 Mar. (81)	O Sat	10	17	5	1 Mar (60)	0 Sat	9873 2303	376 9079	217 8580	417
23 Mar. (82)	2 Mon.	1	20	14	20 Mar (79)	6Fn .	9907 9126	312 9015	269 1683	417
22 Mar. (82)	3 Tues	7	41	23	8 Mar (08)	3 Tues	9783 6355	160 1454	238 3451	417
22 Mar (81)	4 Wed	13	53	32	26 Feb (57)	1 Sun .	9997 9904	43 0812	210 2597	417
22 Mar (81)	5 Thur	20	5	41	17 Mar (76)	O Sat .	32 6728	979 6747	261 57(72	418
23 Mar. (82)	0 Sat	2	17	50	7 Mar (66)	5 Thur.	247 0275	863 2103	233 4847	418
22 Mar (82)	1 Sun .	8	29	59	24 Feb (55)	2 Mon	122 7504	710 4544	202 6614	418
22 Mar (81)	2 Mon	14	42	8	14 Mar. (73)	1 Sun .	157 4328	646 4478	253 9719	418
22 Mar. (81)	3 Tues	20	54	17	3 Mar (62)	5 Thur	33 1557	493 6919	223 1487	41
23 Mar. (82)	5 Thur	3	6	26	22 May (81)	4 Wod	67 8380	429 6854	274 4591	41
22 Mar (82)	6 Fr	9	18	35	10 Mar (70)	1 Sun	9943 5609	276 9294	245 6358	41
22 Mar (81)	0 Sat	15	30	43	27 Feb (58)	& Thur	9819 2837	124 1735	212 8127	41
22 Mar (81)	1 Sun	21	42	52	18 Mar (77)	4 Wed	9853 9661	60 1669	264 1231	41
23 Mar (82)	3 Tues	3	55	1	8 Mar (67)	2 Mon	68 3209	943 8027	236 0377	41
22 Mar (82)	4 Wed	10	7	10	26 Feb. (57)	O Sat .	282 6758	827 2383	207-9522	41
22 Mar (81)	5 Thur	16	19	19	16 Mar (75)	6 Fr .	317 3582	763 2318	259 2627	41
22 Mar (81)	6 Fra	22	31	28	5 Mar (64)	3 Tues	193 0310	610 4759	228 4395	41
23 Mar. (82)	1 Sun .	4	43	37	22 Feb. (53)	0 Sat .	68 8039	457 7200	197 6162	41
22 Mar (82)	2 Mon.	10	55	46	12 Mar (72)	6 Fn	103 4862	393 7134	248 9266	41
22 Mar. (81)	3 Tues	17	7	55	1 Mar (60)	3 Tues	9979 2090	240 9577	218 1035	41
22 Mar (81)	4 Wed	23	¥0		20 Mar (79)	2 Mon .	13 8914	176-9509	269 4139	419
23 Mar (82)	6 Fri	5	32	13	9 Mar. (68)	6 Fm .	9889 6148	24 1949	238 5907	41

													ī		1
					CONC	URRI	ent YI	ear.							1
		ramo	r year		_				Jovia	r Sam	VA'	T9ARA	1	Interculated add it a) and suppressed I shaya) true	
Kalı	Saka	Chartradı Vıkrama	Meshadi solar	n Bengal	Kollam.	A.	D		outhern ay stem			Northern system	16	inar months	-
1	2	3	3	a	4		5		6			7		8	
4198	1019	111	54 1	503	271-72	*10	096 97	10 I	hätçı .		13	Pramāthin	4	rdbādaĀ	
4199	102	0 11	55	504	272-73	1	097-98	11 I	évara .		14	l Vikrama	1		1
4200	102	1 11	.56	505	273 74	1	098 99	12]	Bahudhân	ya .	18	Vrisha .		•	
420	1 102	2 11	57	506	274-71	5 10	99 1100	13 1	?ramäthu	a .	1	. Chitrabhanu	. 1	Jylshtha	
420	2 102	3 1	158	507	275 7	B *1	100 01	14	Vikrama	•	1	7 Subhānu		•	
420	3 109	4 1	159	508	276 7	7 1	101-02	15	Vrisha .	•	1	8 Tärana	. 1	A4vina	1
420	4 10	25 1	160	509	277-7	8	1102-03	16	Chitrabai	inu .	1	9 Pärthiva	\cdot	•	- 1
420	05 10	26 1	161	510	278-7	9	1103 04	17	Subhānu		2	20 Vyaya .	\cdot		1
42	06 10	27 1	162	511	279	30 *	1104 05	18	Tārana	•	1:	21 Sarvajit		4 Āshādha	
42	07 10	28 1	1163	512	280	B1	1105 06	19	Pärthiva	•		22 Sarvadhärin	1	•	1
42	08 1)29	1164	513	281	82	1106 07	20	Vyaya	•		23 Virödhin		•	1
42	209 1	030	1165	514	282-	83	1107-08	21	Sarvajıt	•		24 Vikrita		3 Izehtha	
		1	1166	518	1	- 1	*1108 0		Sarvadh			25 Khara .	4	8 Kāritika	7
		032	1167	510	-1	1	1109-1		Vırödhi		•	26 Nandana	$\{ $	10 <i>Pauska</i> (Ls 12 Phälguna	*) }
	1	1034	1168	51	1	88	1110-1	- 1	ł Vikrita		•	27 Vijaya		•	
		1035	1170	51	1	7 88	*1111-5		5 Khara 6 Nandar			28 Jaya .			
	4215	1036	1171	1	- 1	8-89	1113-	l	7 Vijaya			29 Manmatha 30 Durmukha	•	5 Śrāvana	٠
	4216	1037	1172	1	l l	9 90	1114	1	8 Jaya			31 Hčmalamba	•		
	4217	1038	1173	1	1	00 91	1115	1	9 Manm		•	32 Vilamba		4 Āshādha	
	4218	1039	1174	<u>.</u> ;	523 2	91-92	*1116	17	30 Durm	akha		33 Vikārin	•	* Wennehme	•
	4219	1040	117	5 1	524 2	92-93	1117	-18	31 Hēma	lamba		34 Särvarın			
	€220	1041	1117	6	525 2	93 94	1118	19	32 Vılam	ba		35 Plava .		2 Varšākha	
	4221	104		1	1	94 95	1	- 1	d3 Vikār	m	•	36 Subhakrit			
	4222	104	3 117	8	527 2	95 96	+1120	21	34 Šārva	nn	•	37 Śōbhana	•	6 Bhādraps	aba

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				CO	MMENCEMEN	I OF THI	3			1
	SOLAR YEA	n			LUNI SOLA		av su\rise 'ra sukia 1		oa miich	_ Kalı
Dry and month A D	Weck- dry	MC	ne of Sha i krin		Day and month A D	Week- day	a	t	c	
13	14	-	17		19	20	23	24	25	-
	<u></u>	H	M	s			-	-	-	-
22 Mar (82)	0 Sat	11	41	22	27 Feb (58)	4 Wed	103 9691	907 7307	210 5052	4198
22 M ir (81)	1 Sun	17	56	31	17 Mar (76)	3 Tues	138 6515	843 7242	261 8157	4109
23 Mar (82)	3 Tucs	0	8	40	6 Mar (65)	0 Sat	14 3744	690 9683	230 9925	4200
23 Mar (82)	4 Wed	6	20	49	24 Fcb (55)	5 Thur	228 7291	574 5038	202 8848	4201
22 Mar (82)	5 Ihur	12	32	58	13 Mar (73)	3 Tues	9924 7795	474 2057	251 4575	4202
22 Mar (81)	6 Fu	18	45	7	2 Mar (61)	0 5rt	9900 5024	321 4497	20 6342	4203
23 Vinr (82)	1 Sun	0	57	16	21 War (80)	6 Frs .	9835 1847	257 4432	271 9446	4201
23 Var (82)	2 Mon	7	9	25	11 Mar (70)	4 Wed	49 5396	140 9788	243 8592	4205
22 Mar (82)	3 Tucs	13	21	34	28 Feb (59)	1 Sun	9925 2624	988 2229	213 0361	4206
22 Mar (81)	4 Wed	19	33	43	18 Mar (77)	0 Sat	9959 9448	924 2154	264 3464	1207
23 Mar (82)	6 Tri	1	45	52	8 Mar (67)	5 Thur	174 2996	807 7521	236 2010	4208
23 Mar (82)	0 S_t	7	58	1	25 Feb (56)	2 Mon	50 0225	654 9962	205 4387	4209
22 Mar (82)	1 Spn	14	10	10	15 Mar (75)	1 Sun	84 7018	590 9896	256 7493	4210
22 Var (81)	2 Mon	20	22	19	4 Mar (63)	5 Thur	9960 4277	438 2337	225 9250	4211
23 Mar (82)	4 Wed	2	34	28	23 Mar (82)	4 17 ed	9995 1101	371 2271	277 2354	4212
23 Mar (82)	5 Thur	8	4υ	37	12 Mar (71)	1 Sun	1870 8330	221 4712	246 4122	4213
22 Mar (82)	6 Trı	14	58	16	1 Mar (61)	6 Fri	85 1877	105 0069	218 3269	4214
22 Mar (81)	0 Srt	21	10	53	20 Mar (79)	5 Thur	119 8701	41 0004	269 6373	4215
23 Mar (82)	2 Mon	ડ	23	4	0 Mar (68)	2 Mon	9995 5930	888 3444	2 38 8140	4216
23 Mar (82)	3 Tues	9	35	13	27 Fcb (58)	O Sat .	209 9478	771 7891	210 7286	4217
22 Mar (82)	4 Wed	15	47	22	17 Mar (77)	6 Trı	244 6302	707 7736	262 0391	4218
22 Mar (81)	5 Thur	21	59	31	6 Mar (65)	3 Tues	120 3530	555 0176	- 1	4219
23 M ir (82)	0 Sat .	4	11	40	23 Feb (54)	0 Sat	9996 0759	402 2617		4220
23 Mar (82)	1 Sun .	10	23	49	14 Mar (73)	6 Fri .	30 7582	338 2552	1	4221
22 Mar (82)	2 Mon	16	35	58	2 Mar (62)	3 Tues	9906 4811	185 4093	220 8798	4222

TABLE

(M		LEMIV	urrent 1	CONC				
Interculated (adhila) and suppressed (kshayi) tru	MV ATY (RA.	JOVIAN SE	A D	Kollam,	olar year al	Vıkrama	Saka	Kalı
lunar month	Northern system	Southern eystem.	Aυ	Roman,	Meshadı solar ın Bengal	Charträdz Vakrama		
8	7	6	5	4	3a	3	2	1
	38 Krūdhin	35 Plava	1121-22	296-97	528	1179	1044	4 223
	39 Vierāvasu	36 Subhakirt	1122-23	297-98	529	1180	1045	4224
4 Ashādha	40 Parābbaya	37 Sobhans	1123 24	298-99	530	1181	1046	1225
* Usueder	41 Plavanga	38 Krūdhm	°1124-25	299-300	531	1182	1047	1226
•	42 Kilaka	30 Viávāvasu	1125 26	300 01	532	1183	1048	4227
	43 Saumya	40 Parabbaya	11 6-27	301-02	533	1184	1049	4228
3 Jyčehtha	44 Sādhāraņa	41 Plavanga	1127 28	302-03	534	1185	1050	4229
	45 Virodhakrit	42 Kilaka	*1128 29	303 04	835	1186	1051	4230
12 Phälguna†	46 Pandhāvin	43 Saumya	1129 30	304-05	536	1187	1052	4231
•	47 Pramādin	44 Sādhāraņa	1130 31	305 06	537	1188	1053	4232
- 4 -	48 Āpanda	45 Virödhakut	1131-32	306 07	538	1189	1054	4233
5 Stävans	49 Rālshasa	46 Paridhāvin	*1132 33	307-08	539	1190	1055	4234
••		47 Pramādin	1133 34	308 09	540	1191	1056	4235
	1	48 Ānanda	1134-35	309 10	541	1192	1057	4236
4 Āshādha	51 Prigals	49 Rālshasa	1135 36	310 11	542	1193	1058	4237
•	52 Kälayukta	50 Anala	*1136-37	311-12	543	1194	1059	4238
	53 Siddhärthin . 54 Raudra .	51 Pingala	1137-38	312-13	544	1195	1060	4239
2 Vaišākha	55 Durmati	52 Kālayukta	1138-39	313 14	545	1196	1081	4240
	56 Dundubhi	53 Siddhārthin	1139 40	314-15	1	1	1082	4241
6 Bhadrapada	57 Rudhirödgārin	54 Raudra	*1140 41	315 16				4242
•	58 Raktāksha	55 Durmati	1141 42	316-17	1			4243
	59 Krödhana	1	1142 48	317-18	1			4244 4245
4 Ashādha	60 Kahaya			10.00		1	1	4246
•	l Prabhava				1		1	4247
3 Jyčahtha	2 Vibhaya		1145 46	820-21	852	1203	1.000	No.

LXXXII-Contd.

			ونسند		COM	MENCEMENT	OF THE				Ī
*********	£	OLAB YEAR	:			LUNI SOLAR	YEAR (MEA CHAITR	n sunrise o A éurla 1 e	F CIVIL DAY NDS)	ои мнісн	
A CONTRACTOR OF THE PARTY OF TH	Day and month A D.	Week- day	Mē	e of ha-s rant	am-	Day and month A D	Week- day	tı	8	6	Kall.
1	13	14		17		19	20	23	24	25	1
1			н	M	s.			1			
١	22 Mar (81)	3 Tues	22	48	7	21 Mar (80)	2 Mon	9941 1635	121 4928	272 1902	4223
1	23 Mar (82)	5 Thur	5	0	16	11 Mar (70)	0 Sat	155 5183	5 0284	244 1047	4224
-	23 Mar (82)	6 Fn	11	12	25	28 Feb (59)	4 Wed	31 2411	852 2724	213-2826	4225
1	22 Mar (82)	0 Sat .	17	24	34	18 Mar (78)	3 Tues	65 9236	788 2659	264 5920	4226
	22 Mar (81)	1 Sun .	23	36	43	8 Mar (67)	1 Sun	280 2784	671 8016	236 5066	4227
	23 Mar (82)	3 Tues	5	48	52	25 Feb (56)	5 Thur	156 0012	519 0457	205 6833	4228
	23 Mar (82)	4 Wod	12	1	1	15 Mar. (74)	3 Tues	9852 0516	418-7475	254.2560	4229
	22 Mar (82)	5 Thur	18	13	10	3 Mar (63)	0 Sat .	9727 7745	265 9915	223 4328	4230
	23 Mar (82)	0 Sat	0	25	19	22 Mar (81)	6 Fm .	9762 4568	201 9851	274 7432	4231
-	23 Mar (82)	1 Sun .	6	37	27	12 Mar (71)	4 Wed	9976 8117	85 5207	246 6577	4232
	23 Mar (82)	2 Mon .	12	49	36	2 Mar (61)	2 Mon	191 1665	969 0564	218 5724	4233
1	22 Mar (82)	3 Tues	19	1	45	20 Mar (80)	1 Sun .	225 8489	905 0499	269 8828	4234
	23 Mar (82)	5 Thur	1	18	54	9 Mar (68)	5 Thur	101 5717	752 2939	239 0596	4235
	23 Mar (82)	6 Fn	7	26	3	26 Feb (57)	2 Mon	9977 2946	599 5380	208 2363	4230
	23 Mar (82)	0 Sat	13	38	12	17 Mar (76)	1 Sun	11 9770	535 5314	259 5468	4237
	22 Mar (82)	1 Sun .	19	50	21	5 Mar (65)	5 Thur	9887 6999	382 7755	228 7236	4238
	23 Mar (82)	2 Tues	2	2	30	22 Feb (53)	2 Mon .	9763 4226	280 1095	197 9004	4239
	23 Mar (82)	4 Wed	8	14	39	13 Mar (72)	1 Sun.	9798 1050	166 0130	249 2108	4240
	23 Mar (82)	5 Thur	14	26	48	3 Mar. (62)	6 Fri .	12 4599	49 5488	221 1253	4241
	22 Mar (82)	6 Fri	20	38	67	21 Mar (81)	5 Thur	47 1422	985 5422	272 4358	4242
	23 Mar (82)	1 Sun	2	51	6	11 Mar (70)	3 Tues	261 4971	869 0779	244.3503	4243
	23 Mar (82)	2 Mon .	9	3	15	28 Feb (59)	0 Sat .	137-2199	716 3219	214 5272	4244
	23 Mar (61'	3 Tues	15	15	24	19 Mar (78)	6 Fm .	171-9024	652 3154	264 8375	5245
	22 Mar (82)	4 Wed	21	27	33	7 Mar (67)	3 Tues	47 6251	499 5595	234 0143	4246
	23 Mar (82)	6 Fn	3	39	42	24 Feb (55)	0 Sat .	9923 3480	346 9035	203 1911	4247

TABLE

			~~~~	CONC	URRENT	YEAR			
		/ikrams,	dar year d			Jovian	SA	.My atsara	Interculated (adhska) and suppressed
Kalı	Saka —	Chaitrādi Vikrama,	Mcshādı solar ın Bengal	Kollam	A D.	Southern system.		Northern 83 stem	( <i>I shaya</i> ) true lunar months
1	2	3	3a	4	5	6		7	8
4248	1069	1204	553	321-22	1146 47	60 Kshaya		3 Sukla .	
4249	1070	1205	554	322-23	1147-48	l Prabhava		4 Pramoda	8 Kürttika 9 Märgas (lsh)
4250	1071	1206	555	323-24	*1148 49	2 Vibhaya			12 Phälguna
4251	1072	1207	556	324-25	1149 50	3 Śukla		B Atlanta	• •
4252	1073	1208	557	325-26	1150 51	4 Pramöda		7 Śrimukha	F 6
4253	1074	1209	558	326-27	1151-52	5 Prajāpati		8 Bhāva	5 Śrāvaņa .
4254	1075	1210	559	327-28	*1152-53	6 Anguras	•		•
4255	1076	1211	560	328 29	1153-54	7 Śrīmukha	•	9 Yuvan	•
4256	1077	1212	561	329 30	1154-55	8 Bhāva	•	10 Dhütrı	4 Āshādha .
4257	1078	1213	562	330 31	1155 56	9 Yuvan	•	11 Isvara	•••
4258	1079	1214	563	331-32	*1156-57	10 Dhātri .	•	12 Bahudhānya .	•
4259	1080	1215	564	332-33	1157-58	10 Dastri .		13 Pramathin .	2 Vaišākha .
4260	1081	1216	565	333 34	1158 59			14 Vikrama	•
4261	1082	1217	566	334-35	1159 60	12 Bahudhānya		15 Vrisha	6 Bhādrapada
4262	1083	1218	567	335-36	*1160 61	13 Pramāthm	•	16 Chutrabhānu†	
4263	1084	1219	568	336-37	1161-62	14 Vikrama	•	18 Tărana .	•
4264	1085	1220	569	337-38	1162-63	7		19 Pärthiva	4 Āshādha .
4265	1080	1221	570	338-39	1163 64	16 Chitrabhanu	$\cdot$	20 Vyaya	•
4200	1087	1222	571	339-40	*1164-65	17 Subhānu		21 Sarvajit .	•
4267	1088	1223	572	340 41	1165-66	i .	$\cdot$	22 Sarvadhārin	3 Jyështha .
4268	1089	1224	573	341-42	1166 67	19 Pärth	•	23 Virödhin	7 Āśvina
4269	1090	1225	574	342-43	1167-68	20 Vyaya	•	24 Vikrita	0 Pauska (ksh) 2 Phälguna
427(		1226	575	343 44	*1168 69	21 Sarvajit	•	'	
427		1	576	344 45	1169-70	22 Sarvadhārın 23 Vırōdhın		26 Nandana	
4272	5 1733	1228	577	345 46	1170 71	24 Vikrita	•		b Śrāvaņa .
		<u></u>	-	]	1	pressed in the ner	•	28 Jaya .	414

## LXXXII-Contd.

			, <del></del> .	COM	Mencement	OF THE		·		
	Solar Tea	В			LUNI SOLA	r year (me Chai:	an sunrise Tra śurla 1	of civil da end8).	ношw ко у	
Dry and month A D	Week- day	Mi	ne oi sha krăn		Day and month A D	Week-day.	a	ь	c	K
13	14	一	17		19	20	23	24	25	1
22 Mar. (82)	0 S1t	H	M 51	5 51	15 Mar (74)	6 Fri	9958 030	1 282 797	0 254 5010	424
23 Mar (82)					4 Mar (63)	3 Tues	9833 7532			1
23 Mar (82)	1 Sun	16	4	0						1
22 Mar (82)	2 Mon	22	16	9	22 Mar (82)	2 Mon 0 Sat	9868 4350	949 5702		1
23 Mar (82)	4 Wed	4	28	18	12 Mar (71)	1	82 7905			j
23 Mar (82)	5 Thur	10	40	27	2 Mar (61)	5 Thur	297 1453			1
3 Mar (82)	6 Fri	16	52	36	21 Mar (80)	4 Wed	331 8276			425
2 Mar (82)	0 Sat	23	4	45	9 Mar (69)	1 Sun .	207 5505	}		425
23 Mar (82)	2 Mon	5	16	54	26 Feb (57)	5 Thur	63 2734			42 )5
23 Mar (82)	3 Tues	11	29	3	16 Mar (75)	3 Tues	9779 3237	363 2894	257 0546	4256
23 Mar (82)	4 Wed	17	41	12	6 Mar (65)	1 Sun	9993 6786	246 8250	228 9691	4257
22 Mar (82)	5 Thur	23	53	21	23 Feb (51)	5 Thur	9869 4024	94 0691	198 1458	4258
23 Mar (82)	O Sat .	6	5	30	13 Mar (72)	4 Wed	9904 0838	30 0625	249 4563	4259
23 Mar (82)	1 Sun	12	17	39	3 Mar (62)	2 Mon	118 4386	913 5983	221 3709	4260
23 Mar (82)	2 Mon	18	29	48	22 Mar (81)	1 Sun	153 1210	849 5918	272 6813	4261
23 Mar (63)	4 Wed 5 Thur	0	41	57 6	10 Mar (70)	5 Thur	28 8439	696 8358	241 8581	421.2
23 Mar (82) 23 Mar (82)		6	54 a		27 Feb (58)	2 Mon .	9904 5667	544 0799	211 0349	4203
23 Mar (82)	6 Fri 0 Sat	13 19	6 18	15 24	18 Mar (77) 7 Mar (66)	1 Sun	9939 2491	480 0733	262 3454	4264
23 Mar (83)	2 Mon	1	30	33	25 Fob (56)	5 Thur	9814 9719	327 3173	231 5221 203 4366	4265 4206
23 Mar (82)	3 Tues	7	42	42	15 Mar (74)	3 Tues 2 Mon	29 3268 64 0091	210 8530 146 8465		4267
23 Mar (82)	4 Wed	13	54	51	4 Mar (63)	6 Fri	9939 7320	994 0906		4268
23 Mar (82)	5 Thur	20	7	0	23 Mar (82)	б Thur	9974 4144	930 0840		1269
23 Mar (83)	0 Sat	2	19	9	12 Mar (72)	3 Tues	188 7692	813 6198		1270
3 Mar (82)	1 Sun	8	31	18	1 Mar (60)	0 Sat	64 4920	660 8638		1271
23 Mar (82)	2 Mon	14	43	- 1	20 Mar (79)	6 Fri	99 1744	596 8573	267 6361 4	272

TABLE

				COZC	URRENT :	YEAR				
	6 -	/ıkrama	lar year			JOVIAN	SA	M¥ atsara	Interculated (adhila) and suppressed (Ishaya) tru	d
Kalı	Saka 	Chastradı Vikrama	Meshadı solar ın Bengal	Kollam	A D	Southern system.		Northern system	lunar month	18
1	2	3	3a	4	5	G		7	8	
4273 4274	1094 1095	1229 1230	578 579	346 47 347 48	1171 72 *1172-73	25 Khara		29 Manmatha		
4275	1096	1231	580	348 49	1173 71	26 Nandana 27 Vijaya		30 Durmukha	- 4 Ārhādha	•
4276	1097	1232	581	349 50	1174 75	28 Jaya		31 Hēmalamba 32 Vilamba		
4277	1098	1233	582	350 51	1175 76	29 Manmatha		33 Vikārin	. 2 Vaišākba	
4278	1099	1234	583	351 52	*1176-77	30 Durmukha		34 Särvarın		٠
4270	1100	1235	584	352 53	1177-78	31 Hēmalamba		35 Playa .	6 Bhādrapade	
4280	1101	1236	585	353 54	1178 79	32 Vilamba		36 Subhakrit	Januara jiau	
4281	1102	1237	586	354 55	1179 80	33 Vikārin		37 Sõbhana		
4282	1103	1238	587	355 56	*1180 81	34 Särvarın		38 Krödhin	4 Āshādha	
4283	1104	1239	588	356 57	1181 82	35 Plava		39 Visvāvasu		
4284	1105	1240	589	357.58	1482 83	36 Subhakrit		40 Parābhava		
4285	1106	1241	590	358-59	1183 84	37 Sõbhana		41 Plavanga	. 2 Vaišākha	
4286 4237	1107	1242	591	359 60	*1184-85	38 Krōdhin		42 Kilaka .		
4288	1108	1243	592	360 61	1185 86	39 Višvāvasu		43 Saumya	. 6 Bhadrapada	1
4289	1	1244	203	361 62	1186 87	40 Parābhava		44 Sādhāraņa	.1	
4290	1	1245	594 595	362 63	1187 88	41 Plavanga		45 Virodhakelt		
4291	1	1247	596	363 64 364 65	*1188 89	42 Kilaka		46 Paridhāvin	. 5 Śrāvana	
4292	•	1248	597	365 66	1189 90	33 Saumya	٠	47 Pramādin		
4293	1114	1	198	306 67	1190 91	44 Sādhārana	•	48 Amanda		i
4994		1250	590	367 68	*1192 93	45 Virodhakpt		49 Rākshasa	. 3 Jyështha	•
	1118	1251	600	368-69	1193 94	46 Paridhāvin 47 Pramādin	٠	50 Anala		
	1117	1252	601	369 10	1194 95	48 Ananda	•	51 Pingala	•	
4297	1118	1253	602	370 71	1195 96	49 Rākshasa		52 Kālayukta 53 Siddhāribin	. 2 Valsākha	•

## LXXXII—Contd

	<del></del>				IMENCEMENT					- [
S	OLAR YEAR	,			Luni-solar	YEAR (MEAI CHAITR	N SUNRISE OF A SULLA 1 E	CIVIL DAY ( NDS)	on which	
Day and month A D	Week- day	Mēs	e of ha s rant	true am-	Day and month A D	Week- day	а	6	С	Kal
13	14		17		19	20	23	24	25	
		H	M	s						
23 Mar (82)	3 Tues	20	55	36	9 Mar (68)	3 Tues	9974 8973	444 1013	236 8129	1
23 Mar (83)	5 Thur	3	7	45	26 Feb (57)	0 Sat	9850 6201	291 3454	205 9896	127
23 Mar (82)	6 Frı	9	19	54	16 Mar (75)	6 Fri .	9885 3025	227 3389	257 3001	4277
23 Mer (82)	0 Sat	15	32	3	6 Mar (65)	4 Wed	99 6574	110 8745	229 2147	4270
23 Mar (82)	1 Sun	21	44	11	23 Feb (54)	1 Sun.	9975 3801	958 1187	198 1914	4277
23 Mar. (83)	3 Tues	3	56	20	13 Mar (73)	0 Sat	10 0625	894 1120	249 7018	4278
23 Mar (82)	4 Wed	10	8	29	3 Mar (62)	5 Thur	224 4174	777 6478	221 6164	4279
23 Mar (82)	5 Thur	16	20	38	22 Mar (81)	4 Wed	259 0998	713 6413	272 9269	4250
23 Mar (82)	6 Frı	22	32	47	11 Mar (70)	1 Sun	134 8226	560 8853	242 1036	4281
23 Mar (83)	1 Sun	4	44	56	28 Feb (59)	5 Thur	10 5455	408 1294	211 2804	4282
23 Mar (82)	2 Mon	10	57	5	18 Mar (77)	4 Wcd	45 2279	344 1228	262 5909	4253
23 Mar (82)	3 Tues	17	9	14	7 Mar (66)	1 Sun	9920 9507	191 3668	231 7677	1284
23 Mar (82)	4 Wed	23	21	23	24 Feb (55)	5 Thur	9796 6735	38 6109	200 9444	4285
23 Mar (83)	6 Fm	5	33	32	15 Mar (75)	5 Thur	169 9879	10 8960	254 9926	4286
23 Mar (82)	0 Sat	11	45	41	4 Mar (63)	2 Mon	45 7108	858 1401	224 1694	4287
23 Mar (S2)	1 Sun	17	57	50	23 Mar (82)	1 Sun .	80 3931	794 1335	275 4799	4233
24 Mar (83)	3 Tues	0	9	59	13 Mar (72)	6 Frı	294 7480	677 6693	247 3944	4283
23 Mar (83)	4 Wed	6	22	8	1 Mar (61)	3 Tues	170 4708	524 9133	216 5712	4290
23 Mar (82)	5 Thur	12	34	17	19 Mar (78)	I Sun .	9866 5213	424 6151	265 1438	4201
23 Mar (82)	6 Fri	18	46	26	8 Mar (67)	5 Thur	9742 2440	271 8592	234 3207	4292
24 Mar. (83)	1 Sun	0	58	35	26 Feb (57)	3 Tues	9956 5989	155 3949	206 2352	4293
23 Mar (83)	2 Mon	7	10	44	16 Mar (76)	2 Mon	9991 2813	91 3884	257 5456	4294
23 Mar (82)	3 Tues	13	22	53	6 Mar (65)	0 Sat	205 6364	974 9241	229 4602	4293
23 Mar (82)	4 Wcd.	19	35	2	23 Feb (54)	4 Wed	81 3589	822 1741	198 6370	4208
24 Mar (83)	6 Fri	1	47	11	14 Mar (73)	3 Tues	116 0413	758 1608	240 0474	4207

				CONC	URRENT Y	ZEAR.		
		Vikramo	r year			JOVIAN S	amvatsara.	Intercalsted (adhika) and suppressed
Kab	Śaka	Chaitrādi Vi	Meshiidi solar in Bengal	Kollam.	A D.	Southern system	Northern system	( <i>Pshaya</i> ) true lunar months.
1	2	3	3 <i>a</i>	4	5	6	7	8
4298 4299	1119	1254 1255	603 604	371-72 372-73	*1196 97	50 Anala	54 Raudra .	6 Bhādrapada
4300	1121	1256	605	373 74	1198-99	51 Piógola . 52 Kālayakta .	55 Durmati . 56 Dundubhi .	•••
4301	1122	1257	606	374-75	1199 1200	53 Siddhärthin .	57 Rudhirödgärm	4 Āshādha
4302	1123	1258	607	375 76	*1200 O1	54 Raudra	58 Raktāksha .	•••

# LXXXII-Concld

				CO3	INTIMOL	WITNI	OF TH	Li				
,	Solar yfa	r			Lun	I SOLAR			o telegus p l Lahus an		on which	
Day and month A D	Week- day Time of tru Micha cam krinti.		rii.	D1y month		Week day	(•	а	ь	c	Ka	
13	14		17		):	0	20		23	24	25	1
23 Mar (83)	0 Sat	1H 7	M 59	8 20	2 Mar	(62)	0 Sat		9091 7641	605 4056	219 1242	4298
23 Mar (82) 23 Mar (82)	1 Sun . 2 Mon	14 20	11 23	29 38	21 Mar 10 Mar		6 Fri 3 Taes	٠	26 4465 9902 1 <del>8</del> 94	541 3991 388 0432	270 4346 239 6115	4299 4300
21 Mar (83) 23 Mar (83)	4 Wed 5 Thur	2 8	35 47	47 68	27 Feb 17 Mar	- 6	0 Sat 6 Fri.		9777 8923 9812 5747	235 8872 171 8807	208 7660 260 0765	4301 4302

# TABLE LXXXIII A

Duration and Collective duration of true sclar wonths, with increase of a,b,c at each true sawerent

Calculated for the year K Y 4500, (expired), A D 899-900 By the Brahma-Siddhinta

10,000 ths of circle, b and c in 1,000 ths, "sam"=solar samkranti

										====			===				
	samkranty, h	0	18		Ó	84 6833	86 0023	86 575 \$	86-1842	84 0821	83 3778	81 8028	80-7113	80 3207	80-0167	81 5921	83 0608
	cach truo e otween cac	۵	14		0	122.5490	110 0262	147 6297	142 1443	126 5083	105 2 128	83 5571	c9 8963	GH 7188	68 6420	81 5726	101 0107
	nth proceding ease of a, b, c boseon samkränti	8	13,		0	474 3381	637 4575	108 3624	659 9780	611 2818	312 8509	129 1725	1610 6800	9934 7333	9971 3103	91 9936	273 6176
	Length of solar month proceding each true sankrints, and increase of a, b, c between each such sankränti	H M. S	12		0	22 21 9	0 54 48	11 56 18	11 30 33	0 58 15	10 64 27	21 63 21	11 31 57	8 6 11	10 42 11	10 15 16	55
	th of	Veck Week	1=	Ť	•	8	ල	9	ල	ල	(3)	Ξ	3	€	ε	ε	ପ୍ତ
	Leng	Doy	2	İ	0	30	31	31	31	33	စ္တ	29	S	20	23	6:	8
	At true solar		6		Mõsha-sath	Vrishabha sara	Mithuna sarh	Karka sam	Տւտիո-թուհ	Kanyā sam	Tuli sath	Vrišchika sath	Dhanus sath	Vakara sarti	Kumbha sash	Mins sath.	Medin anth (of following year)
i am anai	collective ranti to	v	8		0	84 6833	170 6856	257 2610	343 4152	428-1273	511 8051	693 6970	671 4092	754 7299	835 3466	016 0337	1000 0
o and c in the	s, etc , and Csha saibki ûnti	P	7		0	122 5490	262 5752	410 2049	552 6492	679 1575	781 1003	869 9574	939 8537	4 5723	73 21 45	154 7871	255 8315
- 1	non in days hours, et b, c from true Mesh each true sankrünti	e	6	,	•	474 3381	1111 7956	1820 1580	2480 1360	2991 4178	3304 2747	3433 +472	3416 4900	3351 2241	3322 5644	3411 5580	3688 2050
a in 10,000 the of circle,	Collective durition in days hours, etc., and collective increase of a, b, c from true Mesha samkranti to each true samkranti	H	a a	•	0	21	5.	23 12 15	10 42 48	11 41 2	22 35 20	20 28 50	8 0 47	16 6 58	2 49 9	22 4 25	0 12 0
l nı ı	lect w	ns cck	W.	*									Ξ		<b>£</b>	<u> </u>	
•		d		۱ -	- <u>-</u>				125	156	186	216	240	275	302	33,4	
	1000			~	Mina suth (of previous year)	Tilesha sam	Vrishbonn sain	Charles som	Sumba and	Konsh mth	Tulis sam	C Vrišchika sam	Dhanus sam	( Makara sath	Kumbha sam	CMina-sath.	\ \left(\text{1Eshr-enh} \ \ \ following year) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Lun whr month (ending at the	secon lof the two solar sam krānts connec	ted with 15)	7	1 Chaitra	2 Vaisākha	3 Jyështha	4 Ashadha }	s Srāvaņa .	$_{f 6}$ Bhādrapada $\Big >$	7 Aévina	8 Kärttika	9 Mārgasira	10. Pausha	11. Magha	12 Phalguns 4	following year)

#### TABLE LXXXIII B

Value of c and of "equation c" at the several true samerints

Correct for K Y 4000, A. D 899-900

c in 1,000ths of circle, "equation c" in 10,000ths

Samkräntı	c	"Equation c"
Mēsha-sam .	277 6064	0 9037
Vrishabha sam .	362 2899	14 4355
Mithuna-sam	448 2921	41 1356
Karka-sam .	534 R676	73 5542
Simha sam	621 0519	102 0578
Kanyā sam .	706 0241	118 5381
Tulā sam .	789 4020	118 9561
Vrišchika sam .	871 2948	104 1144
Dhanus sam .	952 0062	78 3666
Makara sam	32 3264	48 2336
Kumbha-sam .	112 9432	21 0624
Mina-sam.	194 5355	3 6494

#### TABLE LXXXIII C.

EXACT VALUE OF c AND OF "EQUATION c" AT THE MOMENT OF TRUE MESHA-SAMKRINTI AT BEGINNING OF EACH CENTURY K. Y

e in 1,000ths of circle "Equation c" in 10,000ths.

K Y	A D	c	"Eqn c"
3700	599 600	277 6399	0 9347
3800	699 708	277 6287	0 9340
3900	789 800	277 6175	0 9323
4000	899 909	277 6064	0 9326
4100	999-1000	277 5952	0 9319
4209	1099 1100	277 5840	0 9312
4300	1198-1200	277 5728	0 9305

# TABLES LXXXIV, LXXXV.

"Equation b" and "Equation c" in whole numbers by the Brahma-Siddhānta and Siddhānta-Śirōmani

Corresponding to Tables VI, VII, "Indian Calendar."

For close detail Tables LV, LVI, (Vol XV above) are to be used.

"Arg"=moon's (b) or sun's (c) mean anom in 1000ths of circle

TABLE LXXXIV

TABLE LXXXV
Solar "FQUATION c"

Lunar	"	EQUATION	b	"
-------	---	----------	---	---

Arg	Eqn	Arg	1	Arg	Eqn	Arg		Arg	Eqn	Arg		Arg	Eqn	Arg
0	140	500		500	140	1000		0	60	500		500	60	1000
10	149	490	1	510	131	990		10	56	490		510	64	090
20	158	480	1	520	122	980		20	53	480	1	520	GS	980
30	166	470		530	114	970		30	49	470	1	530	72	270
40	174	460	1	540	105	960		40	46	460	ı	540	75	960
50	183	450		550	97	950		50	42	450		559	79	950
60	191	440		560	88	940		60	38	440		560	82	210
70	199	430	1	570	80	930		70	34	430		570	86	930
80	207	420	1	580	73	920		80	31	420		580	89	
90		410	- 1	590	65	910		90	28	410		590	93	010
100	222	400	1	600	58	900		100	25	400		600	90	500
110		390	1	610	51	890		110	22	390		610	99	ธาเ
120		380	1	620	44	880		120	19	380		620	102	88
130		370	1	630	38	870		130	16	370		630	101	870
140		360	ł	640	32	860		140	14	360		640	107	86
150	253	350	1	650	27	850		150	12	350		650	109	85
160			}	660	22	840		160	9	340		660	111	84
170			ļ	670	17	830		170	7	330		670	113	83
180			1	680 690	13	820 810		180	6	320		680	115	82
20				700	7	800		190	4	310		690	117	81
				100	'	800		200	3	300		700	118	80
21				710	4	790	1	210	2	290		710	119	79
22				720	\ 2		l	220	1	280		720	120	78
23				730	1 1	770		230	0	270		730	120	77
24			1	740			}	240	1 0	260		740	121	76
25	0 28	0 250		750	0	750	}	250	0	250		750	121	. 75

#### AUXILIARY TABLE

8 4	Last figure of argument														
Difference in Lqua- tion	9	8	7	6	5	4	3	2	1						
Lyffer tron				Add c	or substrac	ıt	<del></del>	<u>·</u>							
9 8 7 6 5 4 3 2 1	8 7 6 5 4 or 5 4 3 2 1	7 6 6 5 4 3 2 2	6 6 5 4 3 or 4 3 2 1 1	5 5 4 4 3 2 2 1	4 or 5 4 3 or 4 2 or 3 2 1 or 2 1 0 or 1	4 3 3 2 2 2 2 1 1	3 2 2 2 1 or 2 1 1 1 0	2 2 1 1 1 1 1 0 0	1 1 1 0 or 1 0 0						

# TABLE LXXXVI.

⁷ALUE OF G, b, c AT BEGINNING OF CENTURIES OF THE KALIYUGA, BY THE BRAHMA-SIDDHANTA.

K Y Cen- tury,	Begin- ning in A D.	Week- day.	a	ь	С
37 38	509 699	0	6028 1929 4900 0921	719'2529 308 0530	282 9906
39	799	6	3433 3593	860 5614	283 3962 281 0640
40	899	6	2305 2584	449 3615	281 4695
41	999	6	1177 1576	38 1616	281 8751
42	1099	6	49 0567	626 9616	282 2807
43	1199	0	8920 9559	215 7617	282 6863

#### TABLE LXXXVII.

Increase of a, b, c for years of Kaliyuga century.

* = year of 366 days.

Year.	Week- day	а	δ	c	Year	Week- day	a	ь	c
0	0	0	0	0	30	3	729 2961	683 8984	0 6755
1	1	3600 6747	246 4522	999 2925	31	4	4329 9708	930 3505	999 9683
*2	2	7201 3494	492 9043	998 5849	32	5	7930 6455	176 8027	999 2608
3	4.	1140 0580	775 6482	0 6151	*33	6	1531 3202	423 2549	998 5533
4	5	4741 3307	22 1003	999 9076	34	1	5470 6268	705 9987	0 5835
5	6	8342 0054	268 5525	999 2001	35	2	9071 3015	952 4509	999 8759
46	0	1942 6800	515 0047	998 4925	36	3	2671 9762	198 9030	999 1684
7	0 2	5881 9867	797 7485	0 5227	*37	4	6272 6509	445 3552	998 4609
8	3	9482 6614	44 2007	999 8152	38	6	211 9575	728 0990	0 4911
9	4	3083 3360	290 6528	999 1077	39	0	3812 6322	974 5512	999 7836
*10	5	6684 0107	537 1050 <b></b>	998 4001	40	1	7413 3069	221 0034	999 0760
11	0	623 3174	819 8488	0 4303	*41	2	1013 9815	467 4555	998 3685
12	1	4223 9921	66 3010	999 7228	42	4	4953 2882	750 1994	0 3987
*13	2	7824 6667	312 7532	999 0153	43	5 {	8553 9629	996 6515	999 6912
14	4	1763 9734	595 4970	1 0455	*44	6	2154 6376	243 1037	998 9836
15	5	5364 6481	841 9492	0 3379	45	1	6093 9442	525 8475	1 0138
16	6	8965 3227	88 4013	999 6304	46	2	9694 6189	772 2997	0 3063
*17	0	2565 9974	334 8535	998 9229	47	3	3295 2936	18 7519	999 5988
18	2	6505 3041	617 5973	0 9531	*48	4	6895 9682	265 2040	998 8912
19	3	105 9788	864 0495	0 2455	49	6	835 2749	547 9479	0 9214
20	4	3706 6534	110 5017	999 5380	50	0	4435 9496	794 4000	0 2139
*21	5	7307 3281	356 9539	998 8305	51	1	8036 6243	40 8522	999 5064 998 7988
22	0	1246 6348	639 6977	0 8607	*52	2	1637 2989	287 3044 { 570 0482 }	0 8290
23	1 1	4847 3094	886 1499	0 1531	53	4	5576 6056		0 1218
24	2	8447 9841	132 6020	999 4458	54	5	9177 2803	816 5004	0 1210
+25	3	2048 6588	379 0542	998 7381	55	6	2777 9549	62 9526 309 4047	999 4140 998 7064
26	5	5987 9655	661 7980	0.7683	*56	0	6378 6296	592 1485	0 7366
27	6	9588 6401	908 2502	0 0607	57	2	317 9363	838 6007	0 0291
28	0	3189 3148	154 7024	999 3532	58	3	3918 6110   7519 2856	85 0529	999 3216
*29	1	6789 9895	401 1545	998 6457	59	4	1018 2000	60 0000	000 0210

# TABLE LXXXVIII.

# TABLE LXXXVII-Contd

Values of a, b, c per day from Mina 1 to Mesha 2, the day of mean Mesha-samkranti.

рат	Week- day	_	a	_ -	ь	<u> </u>		No of days interval from 0 Mčsha	Montl and day		Week-	a		ь		c	
60 61 62	5 0 1	50	19 96 59 26 59 94	70 16	331 5051 614 2489 860 7011	998 6140 0 6442 999 9367									_		
63 64	3	22	60 61 61 29	63	107 1532 353 6054	999 2292 998 5216		1	2	_	3	4	-	5		6	
65 66 67 68 69	5 6 0 1 3	34 70 6	00 59 01 27 01 94 02 62 541 92	23 70 17	636 3492 882 8014 129 2536 375 7057 658 4496	0 5518 999 8443 999 1368 998 4292 0 4594		29 28 27 26 25	Mīna ", ", ",	1 2 3 4 5	4 5 6 0 1	9502 40 9841 0 179 6: 518 30 856 9:	104 724 014	874 99 911 29 947 54 983 83 20 19	506 422 339	915 19 917 8 920 6 923 3 926 0	664 042 419
70 71 72 73 74	5 0 1	1' 5' 9'	142 60 743 27 682 58 283 28 883 93	777 344 590	904 9017 151 3539 434 0977 680 5409 927 0021	999 7519 999 0444 1 0746 0 3670 999 6595		24 23 22 21 20	93 79 99 99	6 7 8 9	2 3 4 5 6	1195 5 1534 2 1872 8 2211 4 2550 0	00 <del>4</del> 324 643	56 4 92 7 129 0 165 2 201 5	088 005 921	928 8 931 5 934 2 937 0 939 7	553 931 309
*75 76 77 78 *79	5 5 7 6 8 0	4	484 6 423 9 1024 5 1625 2 1225 9	150 897 644	173 4542 456 1981 702 6502 949 1024 195 5546	999 5671		19 18 17 16	" " " "	11 12 13 14 15	0 1 2 3 4	2888 7 3227 3 3565 9 3904 6 4243 2	603 923 3243	237 8 274 1 310 4 346 7 383 0	671 587 504	942 8 945 2 947 9 950 7	2442 9820 7198
*8	11 4 12 8 13 8	5	5165 2 8765 9 2366 6 5967 9	9204 5951 2698	478 2984 724 7506 971 2027 217 6549 500 3987	0 182 999 474 9 998 767	2 2	14 13 12 11	99 91 19	16 17 18	6	4581 4920 5259	8882 5202 1522	419 455 491	3336 6253 9169	956 : 958 : 961 :	1954 933 671
		2 3 4 6 0	4647		746 850 993 303 239 755 522 499 768 951	1 999 382 2 998 674 1 0 708	3 8 0	10	"	19 20 21	2	5597 5936 6275	4162 0482	600	2086 5002 7919	964 967 969	146 884
	90 91 92 93	1 2 4 5 6	5449 9389 2989	2565 9311 9311 92378 99128 0-5871	261 855 544 595 791 05	56 998 58 94 0 61 16 999 90	24 26 50	8 7 6 5	"	2: 2: 2: 2:	3 5 4 6	6952 7290	3121	673	0835 3752 6668 9585	972 975 978 980	359 097
-	•95 96 97 93 •99	0 2 3 4 5	413 773 133	1 261 0 568 1 243 1 917 2 592	5   566 69 1   813 15 8   59 60	97 0 52 519 999 81 41 999 10	02 26 51		29 29 29 21	2	7 2 8 3	8306 8645	2081 8401 4721 1040	818 854	2501 5418 8334 1251	983 986 989 991	311 048
	100	0	887	11 809	2 588 80	001 04	278		Mō	,	0 8 1 6 2 6	9661	7360 3680 0		4167 7084 0		524 262 0

TABLE LXXXIX

SUN'S EQUATION OF THE CENTRE AND SINE-VALUES ACCORDING TO THE BRAHMA-SIDDHINTA.

Serial					SIVE OF ANOM ANGLE			EQUATION								
No of sinc.	Str	's M	ean an	OM	Value in minutes	Diff	3	Equi	tion	Different per mini of anon	ute		n's 1	MEAN ANOM		Serial No of sine.
1	2		3	4		5		6		7			1			
	٥	,	0	,	,	,		•	, "	"		0	,	1 0		,
0	0	0	180	0	0	214	(	)	0 0	2 27	1	80	0	36	0	ο σ
1	3	45	176	15	214	213	0	8	32 5		1	83	45	35	6 18	5 1
2	7	30	172	30	427	211	0	17	26			87	30	35	2 30	2
3	11	15	168	45	638	208	0	25	27 92		1	91	15	348	3 45	3
4	15	0	165	0	846	205	0	33	46 05		1	95	0	340	5 0	4
5	18	45	161	15	1051	200	0	41	<i>5</i> 7 02		1	98	45	34]	15	5
G	22	30	157	30	1251	195	0	49	55 97		2	02	30	337	30	6
7	26	15	153	45	1446	189	0	57	42 97		20	80	15	333	45	7
8	30	0	150	0	1635	182	1	5	15 60		21	0	0	330	0	8
9	33	45	146	15	1817	174	1	12	31 46		21	3	45	326	15	9
10	37	30	142	30	1991	165	1	19	28 17		21	7	30	322	30	10
11	41	15	138	45	2156	156	1	26	3 32	1 6604	22	1	15	318	45	111
12	45	0	135	0	2312	147	1	32	16 92	1 5646	22	5	0	315	0	12
13	48	45	131	15	2459	135	1	38	8 96	1 4369	22	8	45	311	15	13
14	52	30	127	30	2594	125	1	43	32 27	1 3305	23	2	30	307	30	14
15	58	15	123	45	2719	113	1	48	31 62	1 2028	23	_	15	303	45	15
16	60	0	120	0	2832	101	1	53	2 24	1 0750	24		0	300	0	16
17	63	45	116	15	2933	88	1	57	4 12	0 9367	24		45	296	15	17
18	67	30	112	30	3021	75	2	0	34 87	0 7982	24		30	292	30	18
19	71	15	108	45	3096	63	2	3	34 49	0 6706	25		15	288	45	19
20	75	0	105	٥	3159	48	2	6	<i>5</i> 36	0-5184	250		0	285	0	20
21	78	45	101	15	3207	35	2	8	1 99	0-3651	258		15	281	15	21
22	82	30	97	30	3242	21	2	9	24 14	0 2235	262 268		50	277 273	30	22 23
23	86	15	63	45	3263	7	2	10	14 43	0 0745	270		0	273	0	23
24	90	0	90	0	3270	1	2	10	31 19		210		1			4 <b>T</b>

# No 12-THE KEDARPUR PLATE OF SRI CHASDRA DLVA

BY NAUNI KANTA BRATTACALL, M.A., CLUSTON DATES ME FUN

In the October number of the Dates Review for 1912, Mr. J. T. Rossin 1.6.2. p. 11-3-12 a note given him by the late lamented scholar B but the protect is the first time established the fact that a Buddhist langer key and at the "Chandra" at the end of their names had ruled in East Bungal with Virginization as the reappeal about the 10th or 11th century of the Chantra Longitudes and Virginization of Virginia, and the purpose of the Chandra in the chronology of their country. The discussion of the Chandra is the Chandra in April 1917 by Prof. Rādha-Govinda Basāk, M.A. gas an further important to the discussion of the Prof. Rādha-Govinda Basāk, M.A. gas an further important to the discussion of the Prof. Rādha-Govinda Basāk, M.A. gas an further important to the discussion of the published this plate first in the Sections and Baller in the Section Vil 211 p. 130.

The present plate is the third of Sis-Chandra-Dex. It is found a specifically, in excavating earth from a disch at Kedarpur in the Mödseipur wilder, in the first pur District of Bengal. It was preserved in the custody of the second to the solid to be the action. Middle English School. I came to know of the find from a fixed stable is to be not extend the Dacca Museum by the Hon'ble Mi. T. Emerson, C.I.V., I.C.S. then river to the J.N. Roy, I.C.S., Magistrate of Landpur, and Mi.N. Si, which is all offers of Mādāripur.

The plate measures  $8! \times 7!$ , and is therefore elightly maller that it plate polarise is formally. Mit Basāk, which measures  $9! \times 8!$ . The Royal Soul of the Chandras is attached to the radial of the top of the plate. It displays the Wheel of the Low with two concerns the low that the sides, symbolical of the first "Turning of the Wheel of the Low" in the Deve Park, with approach Sārnāth near Benares. It is noteworthy that the Pālus of Bengul who preceded the Chandras, and who were Buddhists as well, had similar devices on their reals. The rank of Sel Sels Chandra-Dēva[h] is written in relicf below the Wheel in the present scal

The plate is incomplete and appears to be no grant at all, but only a plate kept ready, with the stereotyped portion of the grant inscribed in the office of issue, to be filled in with the necessary remaining portions as occasion arose. The plate is full of engravir's mistakes of a serious nature. It may be noted that Kēdārpur, where this plate was found, contains the ruins of a royal settlement surrounded by a broad ditch as well as a big sile d up tank, commonly associated with the memory of Kedār Rāy, one of the famous twelve chieftains who ruled Bengal before the country was completely dominated by the Mughals. Kedar Rāy had his capital at Śripur, which, from the description of Ralph Fitch, appears to have been a flourishing town in 1585, and the reasonableness of having a second capital, only a few miles off, is not very apparent. Of course a thousand and one contingencies might have taken the present plate to Kēdārpur, where it has now been found, but the find of this unfinished plate also makes it possible that the ruins at Kēdārpur may be those of the Chandras who preceded Kedār Rāy by no less than five hundred years

The plate is inscribed on one side only and there is a vacant space of about two inches at the bottom. The inscription contains 18 lines of writing. The letters are 24 to 30 inch in keight and are in most places well inscribed. Mistakes of engraver or surbe are, however,

numerous and they have rendered the preparation of a correct text an undertaking of exceptional difficulty.1

The inscription refers to the reign of Śrī-Chandra-Dēva of the Chandra family of Kings who held sovereignty in East Bengal for some decades before the rise of the Varmans and the Sēnas in that part of the country, towards the end of the Pāla rule in North Bengal. It is written in what may be called the Bengali Script of the 10th-11th century A.D. The language of the inscription is correct Sanskrit verse, except in the portions spoiled by engraver's mistakes. The last three lines are in prose.

There is nothing very special as regards orthography. The use of va for ba is almost the rule in the later East Indian epigraphs, there being no discrimination between them, as in the modern Bengali language. The avagraha is once used and once omitted. The spelling of the word nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia with nistrinia

From a comparison of the abstract of the Idilpur plate of Śri-Chandra published in the Dacca Review, referred to above, with the contents of the present plate, it is evident that the two plates are copies of the same draft. The Idilpur plate seems to have an extra Ślōka towards the end, borrowed from Śri-Chandra's Rāmpāl plate, which is otherwise the copy of a draft different from that of the Idilpui and the Kēdārpur plates. It should be noted, however, that the opening invocatory Ślōka is identical in all the three plates

Sri-Chandra seems to have been the only king of the Chandra family who was powerful enough to issue copper-plate grants, as the three plates hitherto discovered are all in his name. In order, therefore, to bring together all the epigraphical material available for his history, I quote below the necessary portions from Bābu Gangāmōhan Laskar's abstract of the Idilpur plate, as published in the Dacca Review The plate is reported to exist still, but it is in the custody of people who are unwilling to show it to anybody again.

2" The inscription gives the names of three kings —(1) Suvarnna-Chandra. (2) His son (3) Trailókya-Chandra's son (Śrī)-Chandra-Dēva Trailökya-Chandra The last of these kings issues a command from his victorious camp at Vikrampur making a gift of certain lands at the village called Leliya in the Kumaratalaka sub-division (mandala) of the Satata-Padmavāti district (vishaya) The nāme Satata-Padmāvāti literally means 'with-bank-Padmā-house' and was most probably the name of a district on the banks of the Padma river. The names of some of the donces are still legible and the measures of the area of the granted lands are called dronas and patakas, as in the Asrafpur plates Paramount titles such as Paramesvura, Paramabhattāraka and Mahārājādhirāja are attached to the names of (Śrī)-Chandra-Dēva. The title Parama-Saugata (the devout worshipper of Sugata, 10 Buddha) is prefixed to the name of The characters used are probably of the 12th century type of the Bengali alphabet The seal attached to the top of the plate resembles the seals found on the plates of the Pala kings The inscription under notice is very important, as it, like the Asrafpur plates of Devakhadga, shows the existence of Buddhist kingdoms in East Bengal in the period not much anterior to the conquest of Bengal by the Mussalmans

" . The plate is inscribed on one side fully and on another side partly The writing on the second side has become almost defaced of the done and the particulars of the lands granted There are altogether 36 lines of writing An analysis is given below —

Lines 1-4 Contain a verse in honour of Buddha, probably.

I should gratefully acknowledge here the help that I have received in this respect from Prof Abhayā Charan Chakravarti, MA, of the Jagannāth College, Dacca, without whose help I could hardly have made any headway, especially with the passages that are marred by the engraver's mistakes. I also owe some improvements in the reading of the text to the suggestions of my friend Prof Basāk, in whose company I had the opportunity of revising my first transcription.

2 [In this extract, the discription marks, according to the latest emendation, have been adopted —H K S]

Lines 4-5 State that there was a king named Suvarpna-Chandra who was neither purified in fire nor measured on the scales (like gold) but was by nature endowed with greatness (heaviness) and whose deeds were good.

Lines 5-6. State in a verse why the king was called Suvarnna-Chandra.

Lones 6-9 The above king got a son named Trailökya-Chandra, whose look was sacred, who was afraid of the next world, by whom the living world was consoled, whose meritorious deeds were well known throughout the three worlds.

Lines 9-10. Some further epithets of the same king who satisfied his desire of conquering the whole world and who extinguished the fire of his enemies.

Lanes 11-13. More eulogistic epithets (of Trailökya-Chandra-Dēva).

Lines 14-15. The above king had a son named (Sri)-Chandra who was like Indra and whose prowess was like Indra and who was born at the auspicious moment and the signs at whose birth were indicative of royal fortune.

Innes 15-18. Some eulogistic epithets of (Śrī)-Chandra-Dēva.

Lines-18-19 From the victorious camp pitched at Vikramapura,

Line 20, the devoit worshipper of Sugata (Buddha), the meditator of the feet of (i.c. the son of) Mahārājādhirāja Trailōkya-Chandra-Dēva, the Paramēfvara, the Paramabhaṭṭāraka,

Line 21, the Mahārējādhirāja, the Śrīmān, Śrī-Chandra-Dēva, being in good health and having done honour to all the following royal officers and villagers assembled at the village of Leliyā,

Inne 22, in the Kumāratālakā-maņdala of Satata-Padmāvā(tı) district,

Lane 28, thus commands the above officers

Lanes 29-30 Contain the names of the donees."

The following is an abstract of the present Kedarpur plate .-

The inscription opens with a salutation to the Buddha, the Dharmma, and the Sangha,—the three jewels of the Buddhist faith. It then goes on to say that there was one Pürnna-Chandra by name who was the possessor of large forces. He was neither of royal birth nor of pure caste, but he obtained a son Suvarnna-Chandra by name, resplendent as gold (v. 3). Suvarnna-Chandra was a famous man of religious character, and his son was Trailōkya-Chandra (v. 4) Trailōkya's conquests extended far and wide and he was a terror to his foes (v. 5). Trailōkya's son was Srī-Chandra who was extremely virtuous (v. 6). He was a great conqueror whose fame at arms had reached the heavens (v. 7). With this last king Śrī-Chandra-Dēva who was to have issued this plate from his victorious capital at Śrī-Vikramapura the inscription stops

I edit the inscription from the original plate, now in the Dacca Museum.

Seal.

# यो यीचन्द्रदेव[:]

TEXT

1 सिंहिरस्तुं स्वस्ति । वन्द्यी जिनः स भगवान् करुपैकपादं

² भगो'म्यसै विजयते जगदेकदीय: [।*] यत्सेवया

¹ Expressed by a symbol [This symbol is generally taken for om, but the writer has put forward arguments in his article "Some Image Inscriptions from East Bengal" published below in favour of this symbol being read 'Siddhirzgafu'—Ed ]

² Bead well.

^{*} Read el.

- महानुभावः संसारपारमुपगच्छति भिन्तुसद्धः¹ ॥[१*] पूर्व्यी-3 सकल
- । यस्योषष²योष³त्तृ[त]मातपत्रमपत श्रीमानासीवासीरजं रजः 4
- तुलाधिरूढः प्रक्रत्यैव **विन्त** विश्रही न नानी 5 ा तद्यापि क्र दिस्गा
- ल्याणसुवर्णकल्प: सुवर्णचन्द्रस्वकती ततीभूत्^ध ॥[३*] पुर्णावलीकः
- समाम्बासितजोवलोकः [।*] त्रैलोक्यसंकीर्त्तितपुण्यकीर्त्तेः कभीरोर्लोकाः
- लोक्यचन्द्रोऽस्य व(व)भूव पुत्रः ॥[४*] चतुःपयोराश्चिसमाप्तपृथ्वीजयाभिलाषो वि-
- युरेषु निस्त्रियसतानसिन वैरिवर्ज्ञ यो [1*] 9 11 4 * ] कार⁸
- त्रोमान् श्रीधन्द्रदेव: समजनि तनयस्तस्य सहत्रमेव(ब)न्धोः क्रूरार्म्भे स⁰यातुः 10
- दोपवादेव सूक: [।*] प्रेच्यः पीनो गुणाना निर्धिरित परगणमखरो 11
- विषयासिक्तपचाहिपचे यिखाना(त्रा)धत्त विधा विश्वयमितरभसादर्थतो 12
- खुष्ट. पार्थिवपांसुदोह्दरसञ्ज्ञघाघनदिग्गजै विताणामनिसे-13
- विश्रेष्ट्रासरसामपूर्व्वपलितभान्तं [1*] हत्दारवी: दृदेण 1.1
- रजसां रणस् 13 षु नियनो सन्तानी समारीपयन् 75 गत:¹⁴ [40] 11
- त्रीविक्रमपुरसमावासितत्रीमज्जयस्कन्धावारात् परमसीगतो 16
- महाराजाधिराजः त्रीत्रैलोकाचन्द्रदेवपादानुध्यातः 17
- महाराजाधिराजः श्रीमान् श्रीचन्द्रदेवः रसभद्वारकी 18

### TRANSLATION

(Lone 1.) May success attend | May welfare accrue |

(Verse 1) Adorable is the Lord Jina, the only receptacle of mercy. Victorious also is By worshipping them, all the high-minded Congregation the Law, the only light of the world of Blukshus cross to the other side of the world. 2 Read 4

² Read वि. [This corrupt pada has not been properly interpreted. The letter स after य (°) is not seen on the impression A plausible emendation which I would offer, with much hesitation though, is ब्रखा[दृष्टि]प[ *]िस [पे ] सु [स्व] and translate the passage thus 'afraid of which (श.६ dust) the enemy (kings) sought refuge under his para-ol giving up (all) shame '-H K S] 6 Metre Indravajrā

Metre Anushtubli 4 Read ú

s Metre Upajāti

[₽] Read ≥

Read T

⁸ Motre Upajāti

¹¹ Metre Sragdhara

¹⁰ Read वेधा..

¹² This line is proposed to be thus restored —स्पृष्ट: पार्थिवपांसुदीहटरसञ्चधाधनेर्दिगाजै.

¹⁸ Delete स

¹⁴ Metre Sardularıkındıta.

- (Verse 2.) There was one Pürnna-Chandra by name, favoured of the Goddess of fortune, the bold canopy of dust raised by whose vanguard (in battle) was welcomed by the wives of the Sun-God.¹
- (Verse 3) By nature endowed with majesty, he was neither purified in fire (like gold or kings²) nor weighed in balance (like gold or like kings), yet from him came forth the meritorious Suvarna-Chandra resplendent as gold
- (Verse 4.) Of him, who was afraid of sinning against the other world and whose sacred fame was sung throughout the three worlds, was born the son Trailökya-Chandra, the (mere) sight of whom was meritorious,—who was beautiful to look at, and who was a solace to mankind.
- (Verse 5) Not fond of (the possession of) ushayas (districts) [or, devoid of covetousness], but bent on conquering the (whole) earth limited by the four oceans, he put out in battles the fire, uz his foes, by water, uz his creeper-like sword.
- (Verse 6) To him, who was a friend of the right path, was born a son, the prosperous Srī-Chandra-Dēva who was kind (even) towards mischievous endeavours, full of praise for others' good qualities, (but) absolutely dumb to the exposition of (others') faults, a well-built figure, pleasant to the sight and a repository of all virtues. Him, who was averse to all worldly attractions (vishay-āsakti), the Disposer forcibly endowed with Śrī (fortune) both in name and in reality.
- (Verse 7) The multitude of dust particles raised by the victorious (king) in battles, met by the Elephants, the lord of the (ten) quarters completely engrossed by the proud desire of coming in contact with the (aforesaid) kingly dust,³ and avoided from a distance by the gods whose eyes could not close (against it), proceeded towards heaven, causing on the hair of the heavenly nymphs the unprecedented illusion of whiteness of old age.

(Innes 16 to 18) From his prosperous and victorious capital established at Śri-Vikrama-pura, he, the devoit worshipper of Sugata, the Paramēšvara (great lord) Paramabhattāraka, (the great protector) Mahārājādhirāja (the paramount sovereign), the illustrious Śii-Chandra-Dēva, who meditates on the feet of the Mahārājādhirāja Śri-Trailōkya-Chandra-Dēya, in good health—.

^{&#}x27; [See above, page 191, note 3 —Ed ] 2 [The so called Agnikula Kahviriyas —Ed ] 2 [The so called Agnikula Kahviriyas —Ed ] 4 ust —Ed ]

# No 13-A NOTE ON THE DATES OF THE GUPTA COPPER PLATES FROM DAMODARPUR.

### Br K N DIRSHIT, MA.

The discovery of the Damodarpur plates has thrown new light on the fortunes of the Gupta dyrasiy in Lastern India. The plates have been edited by Mr. Radha Govinda Basak above Vol. XV., pages 113-115. I wish here to point out certain inaccuracies in the readings of the dates as read by Mr. Basak, which I first noticed when I read his paper and subsequently verified by reference to the original plates, now preserved in the Varendra Research Society's Museum at Rajshaha.

The date of the record plate which has been read by Mr. Basak as 129 is to be read as 128. The unit figure which is a vertical line with a slight bend, and a script or small horizontal line at the top end, must be full in as the symbol for 8, while the symbol for 9 has a loop at the top.

The fifth plate has lost the name of the reigning Gupta sovereign, but the date has been fairly well preserved. It has been read as 214, but I see no trace of a 'ten' in the second figure, but a clear ' tha ' denoting 20, the date thus being 224. That some Gupta sovereign held away over North Bengal as late as 221 G D or 513 A D, that is cloven years after the date of the Mandasor pillar inscription of Tabidharman (532 AD) is an important result It is no lorger possible to assume with Mr. Basak that the Gupta Emperor who made the grant was Bhanug apin I as the difference between the date of the plate and the only known date for Bhanngupta (tir, 191 Gupia Era) is now 33 years. The fourth and fifth plates seem to be reparated by a nader margin than that existing between any other two plates of the Damodarpur find. The intersening period of rixty years, roughly 164-224 Gupta Era (=483-543 A.D.) witnessed the gradual diminut on of the Gupta dominion and the slow shifting of the centre of their power to the cast. It also witnessed the rise and fall in succession of the Hūpa chieftains Toramana and Militabula, and the transitory success of the Malava chief Vishpuvardhana Yashdharman Other dynastics like the 'Vardhana' kings of Thanesvar and the Maukhari rulers of Kasala were coming into power on the western outskirts of the Gupta Empire, the latter dynasty in particular having carried on an incessant warfare in Oudh and adjacent regions with the Guptas It was probably the ascendancy of the Maukham rulers in Ayodhya that drove the noble born 'Ampiadeva (the donor of the fifth Damodacpur plate) from his native place Ayodhya to the distant Paundravardhana province, which may seem to have been one of the last retreats of the Imperial Guptas. The Jaunpur inscription of the time of the Mankhari Isvaravarman, though not detad, must belong to the same period as the fifth Damodarpur plate, as we know from the Haraha inscription that Isvaravarman's son Isanavarman lind fully established himself in Oudh by 555 A.D.

## No 14.—SOMALAPURAN GRANT OF VIRUPAKSHA SAKA 1389 Br K. V Subrahmanya Aiyar, B A., M.R A.S., Ootagamund.

This set of three copper-plates, marked No 2 in Appendix A of Rao Bahadur H Krishna Sastri's Annual Report on Epigraphy for 1913-14,2 is edited below for the first time with the belp of one set of impressions kindly placed at my disposal by him

The plates are reported to belong to a Kuruba ryot of Somalapura in the Bellary taluka of the Bellary District. They were uncarthed years ago while digging foundations for a house; but were secured in 1913, for the examination of the Assistant Archeological Superintendent,

^{1 [}The reading at the end of 1 1 in Plate V of the Damodarpur Plates is probably Kumars. - Ed.]

² See also p 95, paragraph 25, of the same report.

Southern Circle, through the kind offices of the Tahsildar of the talinka, by the then Kanarese Epigraphical Student, Mr. K Rama Sastri. Regarding the description of the plates Mr Krishna Sastri has made the following note on the cover of the ink-impressions he sent to me.—

"Three plates with rounded tops of which the first and last are written on the inner sides only. They are held together by a ring which passes through a round hole bored at the top of each plate. On the ring, which is nearly  $2\frac{1}{4}$  in diameter and  $\frac{1}{4}$  in thickness, slides a circular seal shaped like a signet ring. The seal measures  $1\frac{1}{4}$  in diameter and bears in relief on its surface at the top the sun and the crescent and a standing boar facing the proper left. Below it is what looks like a floral device. The plates measure  $3\frac{1}{4}$  by  $6\frac{1}{5}$ . The circular top measures  $1\frac{1}{4}$  from the base to the middle of the arc."

The plates are written in the Nandi-Nägarī characters throughout excepting the syllables "Srī-Vırāpāksha" at the end which are in Kannada The inscription is in a good state of preservation the only places where the letters appear slightly damaged are at the commencement of lines 20 and 68

The language of the inscription is Sanskrit verse from beginning to end. The description of the boundaries in dēśablūslū, promised by verse 46 (II. 71, 72), is left blank for reasons which cannot be guessed at this distance of time.

As is usual in the copper-plate grants of Vijayanagara kings, this record contains evident mistakes of spelling such as the frequent substitution of sa for sa (11 1, 4) and vice versa (11. 1, 3), that for ta (11. 5, 16), dha for tha (1. 43), omission of visarga (11. 5, 8, 13) and its retention in places where it has been changed into u (1. 42); unnecessary insertion of anusvāra (11. 37 and 38); etc. Conjunct consonants are sometimes written side by side as in uzung (1. 2), पान्यर्ज्य (1. 37) and खड्जायत. (1. 33). In चतुर्जा (1. 45) and भूज्य (1. 12) the rules of sandhi have not been properly observed u has been unnecessarily doubled in खिन्चित्र and visarga has been changed into double un गुणेर्जिक (1. 27). Other instances of mistakes are भीज for उन्हें (1. 45), सर्व for सर्व (1. 13) and येज्य for येज्य (1. 17). As all the mistakes occurring in the record have been corrected in the text or in the foot notes, they have not been given here in more detail.

The first three verses are invocations addressed to Siva, Ganapati and the boar incarnation of Vishnu The fourth introduces the Moon, and the fifth refers to Yadu and Vāsudova. The historical portion commences with Siāgama (v. 6). Hisson was Bukka. When he became king, the prosperity of the Karnāta kingdom was permanently established (vv. 7 and 8). Hisrihara (II) was born to him, he filled the quarters with the wealth of his charity (v 9) He had a son named Pratāpa-Dēvarāya (I) by whom the Turushkas and hostile kings were overcome (vv. 12 and 13) His queen was Dēmāmbikā and their son was Vijayabhūpati, renowned for his wisdom (v 14). Vijayabhūpati's son by Nārāyanīdēvī was Pratāpa, also called Praudhapratāpa (v. 15), who obtained from his elder brother the kingdom of Ghanādri (v. 16) His son by queen Siddaladēvī was Virūpāksha The titles Rājādhirāja (v 18), Rājaparamēšvara (l. 42), Mūrurāyaraganda, Pararāya-bhayaškara and Hindurāya-Suratrāna and Chhurikā-bhālanētra (v. 20) are given him It is said that he obtained the kingdom by his own prowess and ascended the ancestral throne on the bank of the Tungabhadrā, in the presence of god Virūpāksha (vv. 21 and 22).

In speaking of the ancestors of Virapaksha, our record refers to the valour of Bukka I, the munificence of Harihara II, the provess of Devaraya I and the wisdom of Vijayabhūpati. The same is pithily expressed in a single couplet elsewhere thus:—

मतो वृक्तमहोपालो दाने द्रिद्धरेश्वर: । षीर्व्वं चोदेवरालेथो ज्ञाने विजयभूपति: ॥

¹ South-Ind Inser., Vol I, p 163, vorse 15.

The statement that when Bukka I, one of the two earliest sovereigns of, the Vijayanagara dynasty, ascended the throne, the prosperity of the Karnāṭa kingdom was well established, is of particular interest to the student of history, as it seems to hint the probable fact that the Vijayanagara dominion was founded on the ruins of the Hoysala (i.e. the Karnāṭa) dominion, which was wrecked by the Muhammadan invasions of South India; and shows also that the inveterate feud between the Vijayanagara kings and the Muhammadan monarchs should have risen even from the very inception of the new Hindu kingdom. There is not much doubt that the country over which Bukka ruled was a portion of the Karnāṭa empire and that the Vijayanagara kings were the political successors of the Hoysalas

Of greater importance are the statements of our plates that Pratapa, also called Praudha-pratapa, was the younger son of Vijayabhāpati, that he obtained from his elder brother,—showing clearly that he held a subordinate position under him,—the government of Ghanādri, and that Virūpākaha II was his son.

The Satyamangalam plates of Dövarnya (II)² state that Vijayabhüpati had two sons of whom the elder was called Dövarnya and the younger Pratāpa-Dövarnya. From this it is clear that both the sons had in common the name Dövarnya. The existence of these two sons of Vijayabhüpati, though not with their names specified, is recognised in the three copper-plate grants of Virūpāksha known to us so far, viz. the Sajjalūr plates, the Śriśailam plates and the present Sömalāpuram grant. These, being directly concerned in tracing the main line of Virūpāksha, naturally enough, omit to mention the name of the elder. While the Śriśailam plates call the younger Pratāpa-Rāya, the other two give the additional information that he was renowned by his title Praudhapratāpa. Thus, from all these sources it can be gathered that while the first son of Vijayabhūpati was known by the more name Dövarnya—with or without the common addition of Virapratāpa which is generally assumed by Vijayanagara kings—the younger was always called Praudhapratāpa or Pratāpa-Dövarnya which is sometimes supplemented in stone records by the epithet gajavātļai-landaruļiya. Among the stone records of Vijayanagara kings, the following are clearly attributable to the second son of Vijayabhūpati :—

	No. 92 of the Madrus E collection for 1918.				Dated in Saka 1351 in the reign of Pratāpa- Dēvarāya, son of Vira-Vijayarāya.					
No. 91 of 191	18 .	•	٠	•	Dated in Saka 1352 in the reign of Praudhat- Dēvarāya-Mahārāya, son of Vira-Vijaya- rāya-Mahārāya.					
No. 68 of 19	18 🕻	٠	•	•	Dated in Śaka 1367 in the reign of Pratāpa- Dēvarāya-Mahārāya, son of Vira-Vijaya- rāya-Mahārāya					

Thus it is beyond doubt that the second son of Vijayaraya or Vijayabhūpati was not only called Prataparaya and Praudhapratūpa, but had the additional name Dēvaraya suffixed to these names Further, the Madras Museum plates of Dēvaraya IIs refer to a younger brother of his named Śrigiri who was governing Maratakanagara in A.D. 1424-5 and the Satyamangalam plates of Dēvaraya II, dated in the same year, imply that his younger brother Pratapa-Dēvaraya was

¹ If Mr. Rice has correctly read nijāgiajāprāptam=anādi-rājyam (p 186 of Ep. Garn, Vol. III), it is evidently a mistake of the engraver for nijāgrajāt=prāpta-Ghanādei-rājyah given in our plates. His remarks (stad, introduction, p 23) that Pratāpa or Praudha-pratāpa optained the immemorial kingdom from his slder sister requires modification.

² Ep. Ind., Vol III, p. 87 f.

⁴ Ep. Ind , Vol XV, pp 8 ff.

This is a shortened form of Praudhapratapa.

^{*} Ep Carn, Vol III, pp 185 ff, M1 191.

e Ep. Ind , Vol VIII, pp. 806 ff.

² D 2

ruling over the same district. There is thus no doubt that Pratapa-Devaraya is identical with Śrigiri and this fact has been pointed out by Mr Venkayya in his Annual Report on Epigraphy for 1906 (p 82) It may be added that the name Praudhapratapa-Devaraya was already assumed by Devaraya I 1 A stone inscription of this second son under the name Srigirinatha-Udayār, dated in Śika 1348, has also been discovered \$

In the face of the inscriptional evidence furnished in a number of genuine copper-plate grants and stone records referred to above, we do not attach any value to conclusions differing from recorded facts as have been arrived at by the late Mr T. A. Gopmatha Rao in editing the Śriśailam plates, where he has vainly attempted to show that there was but one son of Vijayabhūpati, by name Dēvarāya He has advanced no valid grounds for disproving the identity of Śrigiri with Praudhapratāpa-Dēvarāya, the second son of Vijayabhāpati.

The first two sons of Vijayabhūpati being known by the name Dēvarāya, it is but natural to mistake the sons of one of the Devarayas for those of the other. But the fact mentioned in our inscription, viz that Virūpāksha was the son of the second son of Vijayabhūpati, whom we have pointed out above to have borne the full name gajavēttai-kandaruliya Praudhapratāpa Pratāpa Devaraya, is of importance as it conclusively controverts the commonly accepted view, viz that Mallikarjuna and Virūpāksha were the sons of Devaraya II, the first son of Vijayabhūpati. this connection, we may point out that two unpublished stone inscriptions furnish definite information. They come from Kundani⁸ in the Salem District and Conjeeveram⁴ in the Chingleput District and state that Mallikarjuna and Virūpāksha were the sons of Gajavēttur-kandaruliya Praudha-pratāpa-Dēvarāya-Mahārāya Here the mention of the epithet Praudhapratāpa makes it certain that the king referred to is the younger son of Vijayabhūpati. Another stone inscription of Virūpāksha, dated in the cyclic year Šārvari, calls him the son of Gajavēttai-Pratāpa-Dēva-It may be noted that while the mother of Virūpāksha was Siddhaladēvī, the mother of Mallikarjuna was Ponnaladevi, who must have been two different queens of Praudhapratapa-Dēvarāya, the second son of Vıjayabhūpatı

Our record is dated in Saka 1389, expressed by the word nav-āshta-guna-bhū, Sarvajit, Karttiga month, bright fortnight, Utthana-dyadasi According to Dewan Bahadur L D. Swamikkannu Pillai's 'Ephemeris,' this date corresponds to Monday, 9th November, AD 1467. It may be noted that the stone inscriptions of this king range in date from Saka 1387,6 Vyaya to Saka 14077 from which it would appear that he ruled for at least ten years But the latter date is very doubtful as the record is damaged

The generals and officers of this king made known to us from inscriptions are Vittharasa, Odeya,³ Săluva-Tırumalaraya,⁹ Săluva-Narasımha,¹⁰ and Sıngappa-(or Śingaṇa-) Dandanāyaka 11 Of these, Vittharasa-Odeya was in charge of Barakuru and Mangalore which he was governing Tirumalarāya was ın charge of Trichinopoly and Sāluva-Narasımha from Saka 1387 to 1398 developed into a usurper in later years. Two stone records of Virūpāksha in particular are

¹ No 138 of the Madras Epigraphical Collection for 1889,

² No 63 of the same collection for 1903

No 203 ditto 1911,

⁴ No. 39 ditto 1890

^{*} No. 681 ditto 1904.

Nos. 180 and 153 of 1901.

^{*} No 398 of 1909

Nos 30 and 153 of the Madras Fpigraphical Collection for 1901

^{*} Köyelolugu makes mention of this chief-see Ind Ant, Vol XI, p. 141,

¹⁸ Soon to 6, below

¹¹ No. 29 and 153 of the Madras Epigraphical Collection for 1901,

worth mentioning in this connection, of which the one, dated in Saka 1390, registers a gift by an agent of Saluva-Narasimha, and the other, dated in Saka 1394, records a gift for the merit of the same chief.

The subjoined inscription registers (1) a gift of land situated to the west of the Hagaii river within the boundary of the village of Yammezōnūia in Mūda-nādu, a sub-division of Hastināvativalita, to a Brāhmana resident of Nitţura, the son of Sāra igūrya, learned in the Vōdas, Sānkhya and Mīmīmsā and reputed as the author of a work called Bhāshya-Bhūshā, (11) gift of lands under the triks called Krishin-taţī'a, Karijakere and in the village of Chiţukanāhūlu to another Brahman named Viiāpīkshūya, a physician and the son of Risēšvara, and (111) gift of the village of Similāpuram, with its name changed into Viiāpīkshīpuram, to a certain Viiānārya, who, in turn, appears to have distributed it among Biahmans, dividing it into 60 vrittis. The distribution of the full 60 vrittis among Brahmans is not given. But it is said that four Brahmans and three others connected with the issue of the copper-plate grant received 8½ shares. The account for the rest is omitted, but it is evident from the blank space preceding verse 46 that possibly one or more plates containing the names of the rest of the vritti holders, which were intended to be inserted, have not been so done. The description of the boundary marks too, which must have followed this verse, is omitted, as alicady remarked.

Of the geographical names found in this inscription, Nittura, Chitukanāhālu, and Somalāpura are villages situated in the Bellary taluka, Hestināvatī is another name for Ānegondi near Hampi, Yammegönüru is in the Bellary taluka at the place where it borders on Hospet, and the river Hagari bears the same name even now. It is noteworthy that the old name Somalāpura is retained at present while its later name Virāpīkshapura is given in Śaka 1389 has not survived Khāri, according to the dictionaries, is equal to 3 bushels and perhaps indicates the extent of land by its sowing capacity. The two tanks, Krishpa-tatāka and Kariyakere, must be looked for also in the Bellary taluka

The composer of the grant was Duiga-Bhaṭṭa, son of Mādhavārādhya, who figures also in Mi 121, and the engraver was the goldsmith Viranārya, son of Muddanārya. This engraver is perhaps identical with Viranārya, the father of Mallana, who meised the inscription Mi 121.

[The following metres are employed vv 1-3, 5, 7, 11, 14, 15, 17, 20-53, Anushtubh, vv 4, 10,  $S\bar{a}rd\bar{a}lavihr\bar{i}dita$ , vv 8, 12, 13, 16, 19,  $Upaj\bar{a}ti$ , vv 6 and 18,  $Up\bar{e}ndravajr\bar{a}$ , v 9, Malini, and v 54,  $S\bar{a}^{\dagger}in\bar{i}$ .]

#### TEXT

### Firs! Plate.

- 1 श्रीगणाधिपतये नमः। नमातु (स्तु।गित(शि)रखंबिचद्रच।मरच।रवे । चै-
- 2 लीकानगरारंभमूलस्तंभाय शभवे ॥ [१*] रचायै जगता भूयाद्दयाकुर्द्दि-
- 3 रदाननः [।*] पाथक्रोखाविधी यस्य परवन्तंति पयोधयः । [२*]
- 4 ष्ठाय यहंद्रानाळमूर्वन । सप्तद्वीपवतो एष्वी लीलंग्नियोरदृख(१य)तः । [३*]

¹ No 79 of the Madras Epigraphical Collection for the year 1919 and No 188 of the same collection for the year 1902

² The Śrisailam plates were also incised by the same person (see above, Vol. XV, p. 19) where the name of the person occurs as Viranachārya, son of Muddanachārya

s Cancel the vieunga of omit the vieunga, जी नाम्भिवदुव्यते is the reading in Mi 121

- 5 'श्रस्थि(स्ति) स्रोकमलालयानुजतया दीव्यनभोमंडले नचनाधिपति[: ] प्र
- 6 भाभिरनिसं(ग्रं) दि[द्मं]डलोत्नासक्त[त्] [।*] चीराव्यिपथय कलानिधिरि-
- 7 ति खातस्(स्र)धांस्(श्रु)[:*] य(ख)यं । नोक्री यग्य (श) विभूषणत्वसगस-
- 8 नीपति[:*] ॥ [8*] वंसे(ग्रे) तस्येव संजातो यदुर्नीम सन्नोपतिः [।*] यदंस(श)जेन भू-
- 9 [रे]षा वास्रदेवेन पालिता। [५*] यिसान्संगरिजदां (त्य)भंगुरभर' प्रत्यर्थिपृष्वी-
- 10 स्तां 'सार्थी(थैं)भेगसुपागतैरिप गता दिखडलो संभ्त्रमा[त्*] । तत्कोिर्त्तिवि-
- 11 वरीषु गच्छति पुरी दिङ्गाथवंदिष्वही सहत्त. यशिमोक्टिमंडन-
- 12 मणि[:*] शो(सो)भूनः(त्रृ)पः सगमः ॥ [६*] ततोभूद्दक्षभूणानः सबभूप-क्रलायणी[: ।*]
- 13 यस्रतापानले सर्व(वं) पतंगत्यरिभूसत: ॥ [७*] वार्नाटलच्सी[.*] सविलास[मा]-
- 14 स यस्मियाहीपे सहनोयकोत्तो (त्तीं) [।*] भूमिस्तवैवाप' वसुंधरात्वं स्थिरित नाम
- 15 प्रथमं गुणोषे ॥ [=*] खदयमुद[य!]शैलादुचदुद्दासतेजा[:*] श्रम्(श)धर इव बू(ब्)कच्मा-
- 16 °स्त:स्तंगमीले। इरिइरनरपालः प्रापदास[ा](ग्रा)[:*] समस्या(स्ताः) करप्टत-वसुपूरै[:*]
- 17 पूरवन् पूर्णधामा ॥ [८ⁿ] येनाकारि कली(लि:) क्षताधिकतरी येने(नै)ष [घं]द्यापत(थ) क-
- 18 मेंब्र(ब्र)स्मपथोजनो(नि)¹⁰ प्रस(श्र)सिताधिषोपसर्ग: परा(रं) [।*] येनांभोनिधि-मेखला वसु-
- 19 म[ती ध]मेंण संरत्त(न्य)ते तस्यानेकदिगीस(श)पालि[त]11यशोविंबस्य केनी-12
- 20 पम(मा) ॥ [१०*] [मे]ळादेवीति विख्याता श्रोपार्वत्योस्तु मेळना[त्*।] सासीज्ञाया¹³ सहोभर्त्तु[:*]

¹ Ml 121 has 硬硬。

² Dolete the punctuation

³ निच 18 also the reading in the Kannada text of MI 121 (see p 203 of Ep Carn, Vol III); but it is read as निल्हा in the romanised text given on p 135 Read युखिन स्वर्

⁴ Read Out

⁵ do is the variant given in M1 121

[•] Read वरिष

⁷ offer is the reading in M1 121.

⁶ गु 18 a correction from पु, read गुजीचे.

[·] Read भतस्यानी

¹⁰ Ml roads पयोजनी

[ा] त is a correction from द्व

¹¹ The Kannada text of Mi 121 has सेनीपना (p 203 of Ep Carn., III) and the romanised text has naivopama ibid, p 135)

¹⁶ Another variant of this is पासीहार्या which is found in M1 121

- 21 स[र्व्वर्धा] पुरायतचा ॥ [११*] इंद्र. खदीषं परिष्ठत्तिस्मा सूमावशीस्मा(स्व) अ-
- 22 तिपन्न[क्रपः] [।] प्रतापपूर्व[:*] किन देवराय. प्रतापती भूसिमपालय-
- 23 [त्य: ।] [र*] प्रातापवन्ही परिजृंभसाणे शुष्कास्तुक्ष्मा श्रीप यस्य राज्ञः [।*] रि-

### Second Plate, First Side

- 24 पुचितीय[ा*]य निरम्तधेर्याः 'कातारवस्मीकझतात्मरचाः ॥[१६*] तस्य देमांबि-
- 25 काभर्त्तुः पुत्रः शतुप्रसर्दनः [।*] विद्यानिधिर्विशिषज्ञो वीरी विजयभूपितः [॥ १४*]
- 26 तस्य नारायणीदिव्या पादुरासीद्यश्रीधनः । प्रीढप्रतापविभवः प्रता-
- 27 पाख्यो महीपति: ।[१५*] गुणेर्र(र)नेकै वनौतकेस्मिन् न्विराजसानस्म-
- 28 स्रताप्तकीर्त्ति[: *1] निजायजात् प्राप्तघनाद्रिराच्यः सार्थीस्रतार्थिव-
- 29 जपारिजात: ॥ [१६*] तस्य "िषद्वदेवीति भार्या सर्वेगुणात्रया ॥
- 30 लच्मीना(नी)र[1*]यणसे(स्प्रे)व स(श्र)[ची]व⁸ नमुचिह्निषः ॥ [१७*] तस्य! सि(श्र)व: प्रादरभू-
- 31 हणाट्यो नामा विक्याच पति प्रसिष्ठः [।*] राजाधिराजः चितिपा-
- 32 लमीकि[र्व]दान्यमूत्ति(ति): करुणैकिषंधु: ॥[१८*] निजप्रतापा[द]धि[ग]-
- 33 त्य राज्यं समस्त्रभाग्यै[:*] परिसेव्यमानः [।*] खड्गांका)यतः सर्वरिपृन्तिः
- 34 जिल्य स मोदते वीरविचासभूमि: ॥ [१८4] चु(छु)रिकाभाजनेची(ह्रे)ति वि-
- 35 खातः प्रतिपं(प)चधीः । सृक्रायरगंडाक पररायभं(भ)यंकर: [।*]
- 36 हिंदुरायसुरवाण इत्यादि विष[दो] बत: ॥ [२०*] तुगसद्रानदीती-
- 37 रे । विक्पाचस्य संनिधी [1*] पिच्यं सिंचासनं प्राप्य पालयन्न(स)-वनीसिमां [॥ २१*] पु(पु)-
- 38 खन्नोकाग्रगं(ग)खोसी विरूपाचित्रतीख(ख)रः । धर्मखानगतै[:]
- 39 सद्धि: संयुती¹² घरणीसुरै: ॥[२२*] शाखिषाचननिर्णीतशकव-
- 40 प्रैन्नमागते । न[वाष्ट]गुणभूयुत्ते सर्विनिद्यत्वरे ग्रिसे [॥ २२*] सारी कार्त्तिक-

10 Cancol the danda

⁷ Ml, 121 has सिष्टल्डेबी.

[।] Perhaps the correct reading is सर्वेथा or सर्व्या , MI 121 has बन्धा

² MI 121 has ध्री , read मतापवक्री

s Read कांतार

[·] Read Ewio

⁵ Cancel W.

⁶ See note 3, p 4, above

[ै] सची नसचिविद्विष 18 the roading in Ml. 121

[•] The variant found in MI 121 is संग्रासह:

[.] The attribute vomer in was were an dallaldie

[ा] दिव्य is the reading that occurs in M1 121

¹² संयक्ती is another variant found in MI 121.

¹⁸ The Kannada text of M1, 121 has भ्रणीवरें;, but the rowanised text reads co. rectly सुरें:.

- 41 विखाते सिते पचि चि विश्वपतः । उत्याना(न)दादसी(श्वी)पुणा(ख्य)काने चापि नृपी-
- 42 त्तमः [1] [२४*] राजाधिराजः स्तेजस्ती यो राजपरमेखरः [1] [वि]कृपाच-
- 43 ध(य) धर्मबुद्धा युत सुधी: ।[२५*] आनेयाय 'नगध्येने निद्दुरख्यसवासि-
- 44 ने। सां(सा)रंगार्यसुतायाय सर्वगास्त्रविदे तथा । [२६*] भाष्यभूषाक[रा]-
- 45 याथ सांख्यामोमांसवेदिने । 'सीवशास्त्रप्रवाणीय चतुप(ष्प)प्रिक्तळा(ला)-
- 46 नि(वि)दे ।[२७*] षडगसिहतं वेदं वेदार्थ वेत्ति भूमुर. [।*] तस्प्रै हिजाय भू-
- 47 [पालो] इस्तिनावितिकतगं(गा) ।[२८*] सूडनाडस्थित(तां) चैव इगरे[:*] प[स्व]-

### Second Plate, Second Side

- 49 में स्थितं(तां) । यंमेगेनूरु सोंस्न्येत्र । खारो भूमिं सहोपित[: ॥*] [२८*] प्रादात्तया च स(स)हि-
- 49 तं चेव सस्यफ्लप्रद ॥[२८६ ] भारद्वाजाय विदुषे । रिसंबरसु-
- 50 प्राय च । विरूपाचार्यभिषजे 'त्रशाखा(खा)ध्या[यि]-
- 51 ने तथा ॥[२०*] खारिसप्तप्रमाणं च [त]टाके क्षणमंजिति[।*] करियकेरेण्टें-
- 52 ति विखाते खारित्रयमितां भुवं ।[३१*] चिटुकना हाळ् नाम्न्येष खारित्रयमिता
- 58 भू(भु)वं । मिळिला खारिसंख्यां(ख्या)च चयोदश स्वित्रुता ॥[३२*] च(त)चस्यं ग्राममेवं त सो-
- 54 मलापुरनामकं [1*] श्रकाकं भी विरूपाचमहीनाथ ददस्व नः" । [ ३ ३ * ] द्र[ति]
- 55 विज्ञाप्य भूभर्त्तुविद्धपा[च]महोपते[: ।*] वि(वो)रणायै[:*] स्वयं लब्धा(वधा) ग्रामं चा[च]
- 56 महीस्व(ख)रात् ॥[२४*] मृ(श्रु)त्वा विज्ञापनं तस्य विरूपाचमहीपति[:*]। [२५*] निधिनिचे-

¹ Delete the risarga

² Read 33°

Bead सर्वशास्त्रप्रवीणाय.

⁴ Caucal the danda

Read T

⁶ The  $\bar{c}$  of  $\hat{c}$  seems to have been erased in the original

¹ Either the word चुसाक or न should be cancelled, otherwise there would be redundancy

^{*} We should have expected बीरबार्धेण संबद्धी यामबाझ For the pleonastic use of the words स्ट्रीपते: and महीबरात् see above, note 1

- 57 पसयुक्तं जलपाषाणिमिश्रितं । अचिष्यागामिसंयुक्तं । सिद्धसाद्ध्यस-
- 58 मन्वितं ।[२६* अष्टभोगैय संग्रुतं कुल्यारामममन्वितं [।*] समस्तविकसंग्रु-
- 59 क्षं सर्वमान्यं फलप्र[दं] । [३७*] तुंगभद्रानदीतीरे विक्रपाचस्य सं(स)निधी[।*]
- 60 सिहरं(र) खोदक (क) दानधारापूर्व यथाविधि [॥३८ ] विरूपाचपुरं चीत-
- 61 प्रतिनाम विधाय च ॥ भोत्तु दातुं चिजेभ्यध प्रादादा[चं'द्र]तारक । [३८*]
- 62 सोपि द्विजय संतुष्ट[.*] संयुत: परया सुंदा [।*] श्रवारे(रो)दाशिषं राज्ञे चिरं-
- 63 जीवी भविविति ॥[४०*] गोचं शाखा पितुनीम दिजानां च यथास्थितं [।*] लिख्यं-
- 64 ते वृत्तिसंख्यात्र पष्टिसंख्या यथाक्रमात् [॥ ४१*] श्रीवत्सो क्राधीतस्व [हेम] ।
- 65 सार्यस्त: स्(स)धी: [।*] मिसभडेति विख्यो(ख्या)तो द्वत्तिमेकामिचाश्रुति॥ [४२*] वासि-
- 66 ष्टो(ष्टो) रुगधोतय वत्तंभदृत्तः] सुधी[:*] । [दु]गीसद्देति विख्याती द्विमिक्ति।सिद्यानु
- 67 ते ॥[४३*] हारीती ° क्गधोतस हपणार्थ[सु]तः सुधी[.] [।*] [सारंगार्थस वि]ख्यात[*] सार्थ[मेक]-
- 68 . .[स]: [॥ ४४*] आचेयोध रगध्येत भायणा[य्य]स्य [नदन]: [।*] भायिभहो दिजयेष्टो(ष्ठो) हत्ति-
- 69 [इयिम] हासुते ॥[४५*]

Third Plate. 8

- 70 °तैस्तै[स](स्र)मन्वितयिन्है °दिं-
- 71 च्च प्रास्या(च्या)दिषु क्रमात् [।*] सोमानोध्या(स्या)ग्रहारस्य लिख्यंते देष(श्र)भाषया [॥४६*]
- 72 वासिष्टो(ष्ठो) वं(ब)न्ह(ह्नृ)चो विदान्
- 73 ऐतयार्यस्त: सुधी: [1*] वसभी रायसन्ता(स्वा)मि(मी) वृत्ति मिनामिन्नास्त्रते ॥ [४०*]

¹ Cancel the dands.

² H is a correction from H.

^{5.- 4} Read स्माधीसय

Read our gla

⁶ Read चुराधीतय

⁷ Read भूराध्येता

s At the top of this plate, a little below the right side of the ring-hole, is the letter ri which I am not able to explain.

[•] The line begins about the middle of the plate

10 Like are in line 23 miles written with n preceding he The grammatically correct form would be rece

¹¹ The two syllables AMI are written over an erasure

- 74 लष्टा श्रीसुह्णाचार्यस्तुः ग्रासमले[ख]कः [।*] वीरणः सगुणो धोमा[न्]
- १ठ इत्तिमेक्षामिष्ठाणुते ॥[४८⁺] श्राचेयो याजुषो धीमान्माधा(घ)वाराध्यनंद-
- 76 म: [1*] 'मासन: प्रंथक्षिद्वान् दुग्गा(र्गा)भटोच हित्तभाक् । [४८*] दानपाल[नयो]-
- 77 क्षेष्ट्रे दानाण्के (च्छ्रे)योनुपालनं [1*] दानास्व(त्व)र्गमवाप्त्रोति पालनादच्(च्छ्र)तं
- 78 पद ॥ [४०*] खदत्तादि(दि)गुण पुं(पु)ण्य परदत्तानुपालनं [।* ]परदत्ताप[हारी]-
- 79 ण खदत्तं निष्मलं भवेत् ॥[५१*] खदत्ता(त्तां) 'परदत्तां वा यो इर(रे)त वसं-
- 80 धरा । षष्टिर्व[क्स] इसाणि विष्टायां जायते क्रि(क्ष)मि[:*] ॥ [५२*] एकीव भगि-
- 81 नी सोने सर्वेषामेव भूभुजां [।*] न भोन्या न ख(क)रग्राष्टा(म्था) विप्रदत्ता [वसुं]-
- 82 धरा ॥ [५२*] सामान्योयं धर्मसेतुं न्रपाणां काले काले पाल[नीयो] भविद्ग[:] [।*]
- 83 श्वांनि[ता]न् भाविनः पार्थिवेंद्रान् भूयो भूयो याचते राम[चद्रः] ॥[५४*] त्रो[॥*] 84 ई11-V11 āpāksha 5

#### TRANSLATION

(Line 1) Obersance to Ganadhipati

- (V. 1) Invocation to Siva [by the common verse namas=tunga, etc.].
- (V 2) May the merciful elephant-faced (god), in the course of whose water-sport the oceans become (mere) ponds, protect the worlds
- (V 3) Salutation to that boar, at the tip of whose stalk-like snout, the earth, comprising the seven islands, seemed (to possess the beauty of) a lovely lotus
- (V.4) There is the Lord of stars (i e Moon), the younger brother of her who resides in the lotus (i e Lakshmi), who shines in the region of the firmament with his (lustrous) ray and constantly illuminates the quarters, who is born of the milk-occan and is renowned as the depository of kalas (digits), himself being made of nectar rays and who has obtained the position of a jewel in the head of Sambhu, the consort of Bhavani (i e Pārvati)
- (V. 5) In his family was born the king named Yadu, and this world was protected by Väsudēva who was born in that family
- (V 6) There was king Sangama of good conduct, wearing Sasimauli (Siva) as an ornamental jewel, on whose victory in battles, the crowds of enemy kings heavily burdened (with numbers) though vanduished leach the cardinal points in great haste, (but) whose (i.e., the 'King's) fame moves further on (passing) through intervening spaces amidst lords of the (eight) directions

^{1&#}x27;Caticel the visargu-afterin

The rest of this line and the next line up to बहाबि। are written on an erasure

Rend ेत्र्प

- (Vv 7 and 8) Then came king Bukka, the foremest of the kingly race, in the fire of whose valour the hostile rulers were consumed as moths. In this king of great fame, the goddess of prosperity of the Karnita (kingdom) resid with pleasure. And the goddess of the earth also for the first time realised the (significance of her) names Vasantharā and Sthirā on account of her qualities of hearing wealth and remaining permanent.
- (V 9.) Inke the moon of bright lustre rising from the Udaiya-Śaila of lofty peak, king Harihara of rising full glory took his birth from ling Bukka who were a splendid crown and filled all the quarters with abundant wealth arquired by taxation as the moon with the exuberent lustre of his rays
- (V. 10) What could stand comparison with him the reflection of whose fame is protected by the deities of the quarters, by whom the (stern) Kah age has been turned into one better than the (golden) Krita age, by whom was caused the highway of the school of philosophy which considers Duty (Karmi) as god (Brahmi) fice of all obstacles, and by whom the earth, having for (its) girdle the oceans, was ruled with justice
- (V 11.) She, who was called Mölädövi because she was a combination of Šii (i e Lakshmi) and Pārvati and was in every way possessed of auspicious marks, was the consort of this king
- (Vv 12 and 13) India, desirous of removing his stains, obtained on earth the form of this (king) and in the name of Dövmäya, with Pritipa prefixed to it, ruled the world with his prowess. In the glowing fire of this king's valour, the Turushkas were scorched up and (other) hostile monarchs, with (their) bravery lost, sought self-protection in forests and ant-hills
- (V. 14) The son of this husband of Demambika was Vijayabhūpati, the destroyer of his enemies, the store-house of learning, of supreme knowledge and a hero
- (Vv 15 and 16) To him, through Nārāyanīdēvī, was born the king called Pratāpa, renowned as Praudhapratīpa, who had fame for wealth. He shone on this earth with many virtues, obtained fame by meritorious deeds, got the (kingdom) of Ghanādir-rājya from his (uterine) elder brother and was a Pārijīta in granting their desired objects to crowds of mendicants.
- (V 17) His wife was Śiddaladčvi, the resort of all good qualities, like Lakshmi to Nārāyana and Śachi to the enemy of Namuchi (1 s India)
- (V 18) Siva (himself) was born of her under the well-known name of Vii ūpāksha, full of good qualities, a  $i\bar{a}j\bar{a}dhii\bar{a}ja$ , the head-ornament of kings, a munificent person and the one ocean of mercy
- (V. 19) Acquiring the kingdom through his own prowess, attended with all kinds of prosperity, and conquering all his chemies with the point of his sword, he, as the play-ground of heroism, rejoices
- (V 20) He who is renowned as Chhurikā-Bhālanētia (i e Šiva in wielding the sword) and ripe of wisdom holds the high (sounding) titles, such as Mūiurāyaiaganda, Paiarāyabhayankara and Hindurāyasui atrāna
- (Vv 21 to 29) On the bank of the Tungabhadiā iver (and) in the presence of (the god) Virāpāksha, having obtained his ancestral thione, this king Viiāpāksha, the foremost (among those) possessing noble viitnes, rules the earth, suiiounded by pious Biāhmanas assembled in his court. In the course of the Śaka years determined by the Śālivāhma-[Era], in the excellent year Sarvajit (corresponding to the year) expressed by nine, eight, gunas (three) and bhū (one) (i.e. 1389), on the auspicious occasion of Utthānadvādašī, in the bright half of the month of Kārttika, he, the best of kings, the wise Virūpāksha, a iājādhirāja (and) rājaparamēšvēsa, of great valour, with the intention of making chality, made a grant to a Brāhmaņa resident of Nittura who was the son of Sārangārya, who belonged to the Ātrōya-[gōtra], and was a student of the Rik-[Sākhā], who was well veised in all the Sāstras, who knew the sixty-four arts

as well as the Sānkhya and the Mīmāmsā (systems of philosophy), who was learned in the Vēdas and the six anjas (branches) with their meaning, and who was the author of the Bhāshya-Bhūshā, of (one) hhār of land situated to the west of the Hagarī (river), within the boundary of (the village of) Yammegēnūru in Mūda-nāda and in (the sub-division of) Hastināvatī-valita

(Vv 30 to 32) Again he gave to the scholar and physician Virūpākshārya, son of Rasēśvara of the Bhāradvāja-[gōtra] and a student of the Rik-Šūkhū, 7 khār of valuable land yielding
grain and fruit under the tank called Krishna, 3 khār of land under (the tank) known as Kariyakēre and of 3 khār of land in (the village) called Chitukanāhālu—thus in all, the number of 13
khāris

(Vv 33 to 39) Having petitioned thus to king Viiūpāksha "Oh! King Virūpāksha! grant me the village situated their named Somalāpura", Vīranārya obtained from the king the (said) village. On healing the request, king Viiūpāksha made, in the presence of the god Viiūpāksha on the bank of the liver Tungabhadiā, a sarvamānya gift with gold and water, accompanied by libation of water as laid down by rule, of the fertile village (Somalāpuram) with all its royal revenue, together with canals and gardens, with its name changed into Virūpākshapulam,—for being enjoyed as long as the Moon and the Sun endure, or for being given away to Biāhmanas,—together with the eight kinds of enjoyment, is (the right to own) the nidhi, nikshāpa, jala, pāshāna, akshīnā, āgāmi, siddha, and sādhya

(V 40) The Brahman too, pleased and overpowered with joy, blessed the king with long life

(V 41) (Here) will be written, in order, the gōtra, śākhā and the father's name and the names of the Brahmans The number of vrittis (who received shares in the village) is sixty

Ye-sc	Name of the donce	Father's name	Götra	Śīkhā	Number of trities owned	
42	Malli-Blintta	Učmanārja .	Śrīvatsa	Rık	1	
43	Dargā-Bhatta	Vallam Bhatta	Väsishtha –	Do	1	
41	Sārangāry a	Hampanārya	Hārīta .	Do	11	
45	Bhīy1-Bhatt1	Bhāyanārya	Ātrēja .	Do .	2	

(V 46) The boundaries of this Biahman village (agrahāra) with their respective marks are written (below) in the language of the country, in the four directions commencing with the east, in order

(V 47) The wise and learned Vallabha, son of Aitayārya, and the chief of the Secretaries ( $R\bar{a}yasa$ ) belonging to the  $V\bar{a}sishtha-[g\bar{c}tra]$  and the Bahvricha-[ $S\bar{a}kh\bar{a}$ ], holds one vritti (in this village)

(V 18) The intelligent smith Virana of virtuous qualities, (who was) the engraver of this dicument and the son of the prosperous Muddanāchārya, holds one vritti (in this village)

(V 49) The learned and intelligent Durgā-Bhatta of the Ātrēya-[gōtra] and the Yajus-village) the composer of this document and the son of Mādhavārādhya, owns one vritti (in this village)

(Vi 50 to 5±) [Tive of the usual imprecatory verses] Line 81) \$\hat{Sr\tilde{i}}-V_1r\tilde{u}p\tilde{a}hsha

[·]The word बृश्चि has pe haps to be corrected int) दिख

# No. 15.—THE BRAHMA-SIDDHĀNTA OF BRAHMAGUPTA, AD. 628

### MEAN STSTEM.

Br Robert Sewell (I C S., Retired).

(Continued from Vol XVII, p. 187.)

321 The Tables published in my last article (above, Vol. XVII) enabled the dates of ancient Indian inscriptions and records to be verified according to the requirements of the Brahma-Siddhānta with, as basis of calculation, the "true" or apparent motions of sun and moon. This mode of reckoning appears to have been introduced in the 11th century AD But the Brahma-Siddhānta was composed in AD 628 and for at least four centuries after its appearance details for the Calendar were almost certainly based on mean planetary motions, while it is believed that this mean system continued to guide the preparation of pańchāngas (almanacs) till a much later date—perhaps for several centuries in some parts of the country

For the correct verification, therefore, of early dates it is necessary for historians to be provided with a set of Tables based on mean planetary motions and the postulates of the Brahma-Siddhānta in addition to those based on mean motions and the postulates of the Arya-Siddhānta. The latter were provided in a previous article in this volume. The former are presented herewith. They cover a period of 800 years, from KY 3700 to 4500, or from AD 599 to 1400

The system of work is the same as in all my previous Tables, that is to say, it is the system of Largeteau as adopted by Professor H Jacobi in the Indian Antiquary, Vol VIII, and in the Epigraphia Indica, Vol. XI Full examples shewing the method of work, which is very simple, are given in my former articles, others, specially concerning the system of mean reckoning ou Brahma-Siddhānta principles, are given below

In case of doubt as to which of the Tables already published should be used in the present case attention is directed to the accompanying § 329

322 In examining the dates of records in earlier years it is necessary to remember that the modes of reckoning adopted were not always the same as those used in mole recent years. As to eras, reference to articles 6-12 of my former work, *Indian Chronography*, is recommended For other matters the late Dr J F Fleet's remarks in the *Journal of the Royal Asiatic Society* for 1912, pp 704-5, will be found very valuable.

Especially let it be borne in mind that the lunar month reckoning in early years was probably carried out on the pürnimänta system. According to the late Professor Kielhorn the earliest known date certainly in amänta reckoning belonged to the year AD 794. It is contained in the Paithän plates of the Räshtraküta king Gövinda III (Epig Ind., III, 105, Ind Ant, XVII, p 142, No 9). As regards these two systems, the amänta and pürnimänta names of lunar months, see Indian Calendar, §§ 13, 45 (with Table on p. 26), 47–51 and the late Sankara Balkrishna Dikshit's footnote on p 31, also Indian Chronography, §§ 75, 76, p. 31.

### Elements of the Brahma-Siddhantu mean reckoning.

323. The principal elements are fully stated in my former article on this authority (above, Vol. XVII, § 313) For calculation on the mean system the following notes are necessary.

(1) The length of the mean sidereal solar year is 365d 6h 12m 9s, a fixture afterwards adopted by Bhaskaracharya in his Siddhanta-Sinomani, AD 1150.

- (n) The advance of a (distance of mean moon from mean sun)—which finally fixes the index of the tithi (\frac{1}{30}\)th of a mean lunation) in measurement by 10,000ths of cucle—in every civil day of 24 hours and in hours, minutes and seconds, has already been given for the Siddhānta-Sirōmani in Tables LIV, A and B (above, Vol XV) These Tables are applicable to the Brahma-Siddhānta
- (m) For the sun's mean motion per duy, hour, minute, etc, see Tables XLIII and XLIV (above Vol XIV)
  - (iv) The advance of a in one mean solar month is, in 10,000ths of circle, 307 349156595
- (v) Each solar month consists of 30d 10h 31m (b 75) Table XCI below shows the interval of days, hours, etc., between the moment of mean Mösha-sankränti, when the mean sun is at celestial long 0° (Table XC, cols 13-17), and the moment of each subsequent sankränti when the mean sun enters each of the twelve signs, and so enables the day and time when each mean solar month begins to be ascentained. The same Table gives the advance of a from its value at the moment of mean Mésha-sankränti to the same at each subsequent sankränti
- (vi) The interval between the moments of true and mean Mcha-samkrānti, ie between the moments of the astronomical beginning respectively of the true and mean solar year, which interval we call the \$\delta \delta 
TABLE B

(abore, p 126)

Value of södhya by the Brahma-Siddhänla

Kaliyuga	A D.	ŚCDHLA AT BEGINNING OF CENTURIFS,								
		D	11	М	s	Days and decimals				
3700	599-600	2	4	8	59 8128	2 1729145				
3800	699-700	2	4	9	2 0160	2 1729400				
3900	799-800	2	4	9	4 2192	2 1729655				
4000	899-900	2	4	9	6 4224	2 1729910				
4100	999-1000	2	4	9	8 6256	2 1730165				
4200	1099-1100	2	4	9	10 8288	2 1730420				
4300	1199-1200	2	4	9	13 0320	2 1730675				
4400	1299-1300	2	4	9	15 2352	2 1730930				
4500	1399-1400	2	4	9	17 4384	2 1731185				

The moment of mean Mēsha-sumkrānti, or the beginning of the mean rolar year

324 The general Table which follows (Table XC, cols 13-17) states the moment of beginning of each mean solar year according to the Brahma-Siddhānta The first entry is for the expired year 3700 of the Kaliyuga (AD 599-600), in which year the astronomical beginning is fixed as at 5^h 15^m after mean surrise on Saturday, 21 March, AD 599 It is incumbent on me to prove the correctness of this fixture—Subsequent entries are based on it by the addition to it year by year of 365^d 6^h 12^m 9^s Proof may be offered in three ways—(A) by comparison with the date and time already found for the beginning of the true solar year KY. 3700, utilizing Dr Schram's determination of the interval between the two occurrences, (B) by comparison with the date and time fixed for the beginning of the same mean solar year according to the First Arya-Siddhānta, allowing for the time difference between the two anthorities caused by their different estimate as to the length of the mean solar year, viz 21^s, (C) by direct computation from the moment in K Y 0 of mean Mēsha-samkrānti, 3,700 years earlier, which, according to the Brahma-Siddhānta (§ 313, v, above), was exactly at mean surrise, or 0^h 0^m 0^s Lankā time, on Friday, 18 Febr (B C. 3102)

A		
	h $m$	δ.
Moment of true Mēsha-samhrānti in K. Y 3700 (AD 599) (Table LXXXII, Vol XVII, above) (5) Thur, 19 Mar	1 6	0 1872
Södhya as above (§ 323, Table) . + (2) 2	4 8	59 81 <b>2</b> 8
Moment of mean Mosha-samkrant: . (0) Sat, 21 Mar	5 15	0
В		
[See Indian Calendar, Table I, cols 13-17, for AD 599-	600 T	
[Dee Indian Outstand, Table 1, com 10-11, 101 & D 000	hm	8.
True Mesha-samkrānti by Arya- Siddhānta	23 17	30
Ārya-Sīddhānta śōdhya +(2) 2	3 32	_
Mean Mēsha-samkrānti by Arya- Siddhānta (1) Sun, 22 Ma	•	_
Less Time-difference in 3,700 years ¹ .	$\rightarrow 21 38$	5 0
Mean Mēsha-samkrānts by Brahma- Siddhānta (0) Sat, 21 Mai	r 5 1	5 0

The epoch of the Kaliyuga was 0^h 0^m 0^s Lankā time, or exactly at mean sunrise on Friday. The length of the mean solar year being 365^d 6^h 12^m 9^s, the beginning of the next mean solar year took place 6^h 12^m 9^s after mean sunrise, and after the expiration of a century from the epoch the mean solar year began at 20^h 15^m 0^s after mean sunrise, so that after 37 centuries had passed the mean solar year K Y 3700 began at 5^h 15^m 0^s after mean sunrise.

When this latter calculation is carried out century by century, the figures shew that centuries 6, 12, 19, 25 and 32, five in all, were defective centuries consisting each of 36,525 days, the remainder being common centuries of 36,526 days. Since 36,526 divided by 7 leaves no

¹ See Tarle, § 273, in Article on the Siddhanta-Śiromani (Vol XV above), which is equally applicable to the Brahma-Siddhanta, or refer to Indian Chronography, p 61 The time-difference in 8 000 years is 17^h 80°, in 700 years 4^h 5°, total 21^h 35°. 2 F 2

remainder and 36,525 divided by 7 leaves remainder 6, the results show that whereas century 0

began on a Friday, century 37 began on a Saturday

Table XC therefore, as regards the moment of mean Mēsha-samkrānti in KY 3700

expired, AD 599-600, is proved to be correct

The beginning of the mean luni-solar year, i.e. the civil day on which the tithi Chaitra sukla 1 expired, and the value of a (mean tithi-index) at mean sunrise of that day. Amanta system

325 In § 317 of my article on the Brahma-Siddhānta as calculated by the true motions of the sun and moon (above, Vol XVII) it will be seen that the value of a at mean sunrise of Sunday, 22 March, AD 599 (KY 3700) was proved to be, in measurement by 10,000ths of a circle, 6567 108945284. The mean solar century, however, began on the previous day, Saturday, 21 March Deducting one day's value of a, viz 338 631985412, from the above, we find that at mean sunrise of that Saturday the value of a, or the mean moon's distance from mean sun, was 6228 476959872. This was its value at the beginning of the 37th century KY. Hence the first entry in Table XCII below which gives the values at mean sunrise on the day on which each century began. The remaining figures in that Table were obtained by the addition to this value of the increase of a in a century. [See § 316 of the same article. The increase of a in a century of 36,525 days is 997 678896964, and in a common century of 36,526 days is 0.416684507.] Centuries 38 and 44 were defective centuries, the rest were common ones. For the beginnings of the odd years of centuries. Table LXXXVII was used, the value of a there given being added to that for the century

Thus was determined the value of a at mean sunrise of the day on which each mean solar year begins (see Example 1 below) From this is found the value of a at mean sunrise of the day on which the luni-solar year begins

326 The first day of the lumi-solar year is, according to the general rule, the civil day on which expired the first tithi of the bright half (tukla) of the amānta lunar month Chaitra, is the tithi which begins at the moment of the first new moon after the Mina-sankrānti, or at the moment of the new moon when that amānta lunar month begins within the limits of which the Mēsha-samkrānti occurs. Having already established the value of a on the day in any year on which mean Mēsha-samkrānti occurred, we have to subtract from that value the increase of a in whole days between the two dates, the day on which the lumi-solar year began being the earlier. The first 30 days' entries in Table LIVA (above, Vol. XV) enable this to be done. We select in that Table the a in col 3 the value of which is next lower than the a of mean Mēsha-samkrānti, and the Table then shews in col 1 the number of intervening days, and therefrom the European day and month, and, by subtraction, also (col 2), the week-day. Deducting the selected a from the a of mean Mēsha-samkrānti, we have the a of mean sunrise of the day, Chaitra tukla 1, on which the mean luni-solar year begins

Thus,—mean Měsha-samkrāntı of the year KY 3700, AD 599-600, was shewn in § 325 to have occurred on (0) Saturday, 21 March A.D 599, at mean sunrise on which day the mean moon's tithi-index a was 6228 4770 In Table LIVA, amongst the values of a in the first 30 days, it is seen that the next lower value is 6095 3757 6228 4770—6095 3757=133 10131. Col 1 shews that the interval of days was 18, and col 2 shews the week-day 4 Mean Mēsha-samkrānti occurred on (0) Saturday 0 (or 7)—4=3 Tuesday It is therefore found that the day Chaitra fukla 1, the first civil day of the mean lumi-solar year, was (3) Tuesday, 3 March AD 599, and that the value of a at mean sunrise on that day was 133 1013, shewing the currency of the tithi fukla 1 This is the entry in Table XC below

It comes to the same thing if the a of Table XCIII below is added to the a of mean Mesha-sankrants, the Table being prepared for that purpose The a of mean Mesha-

All values of a below 333 3 prove the teshs to have been the first of the amania lunar month, s.e., the first sists of the first (sukla) fortught

samkrānii was 6228 4770. We select such a value of a in col 3 of that Table as, added to the former, makes a value between 0 and 333  $\hat{3}$ , the limits of the tithi sukla 1, and note the interval of days, and the week-day resulting by addition of the given week-day (col 2) to the week-day of mean Mēsha-samkrānii Here the selected value of a is 3904 6243, since 6228 4770+3904-6243=133 1013 The interval of days is 18 (col 1) The week-day corresponding to the day Chaitra sukla 1 is (0+3=) 3 The result is the same as obtained by the former process

All the entries in the general Table XC, cols 19-23, can be proved in this way

To find the exact phase of the mean moon, 1 e the mean tithi-index a, on any day of any year, or at any particular moment of any day, it is only necessary to add to the value of a given in col. 23 of Table XC for the first day of the lumi-solar year the amount of increase of a during the intervening whole days, hours, etc., given in Tables LIVA and B (above, Vol XV)

### The purnimanta system of lunar months

327 The amānta lunar month begins at the moment of new moon, the pūrnimānta month at the moment of full moon a fortuight earlier, so that the fortuight (suhla) between new moon and full moon bears the same month-name by both systems, while the fortuight (hrishna) between full moon and new moon bears, in the pūrnimānta system, the name of the lunar month next after that which it bears in the amānta system. The suhla fortuight of the first lunar month, for instance, belongs to Chaitra by both systems. The following krishna fortuight, however, belongs to Chaitra by the amānta system, but to Vaisākha by the pūrnimānta system.

This should always be borne in mind when examining dates of inscriptions, especially in earlier years. For references to already published explanations see § 322 above, and for a Table of corresponding fortnights and lunar months see *Indian Oalendar*, Table II, Part I

#### The mean moon's nakshatra

328 The note on this subject already given (§ 308) in dealing with calculation by the First Arya-Siddhānta mean system (above, Vol. XVI) applies equally to the Brahma-Siddhānta mean system. It is unnecessary to repeat it

Tables LXXX and LXXXI, fixing the sun's mean longitude for every day of the mean solar year according to the First Arya-Siddhānta, may safely be used for general calculation by the Brahma-Siddhānta, since the difference between the two authorities in their estimates of the length of the year only amounts to 21 seconds ¹ But in any exceptionally close case the exact value, at mean sunrise of any day in the year, of s, or the sun's mean longitude, can be found by multiplying the sun's mean motion in one day (Table XLIII, Vol XIV above), by the number of days' interval between the day on which mean Mēsha-samkrānti occurred and the given day. The sun's mean motion in one day by the Brahma-Siddhānta is 59^m 8° 172655, or in 10,000ths of circle 27 377875426

The Rule for work is as follows (1) Find, as above, value of "a" at mean sunrise of given day (11) Note number of whole days intervening between the day of mean Mēsha-samkrānti (Table XC below, col 18, figure in brackets) and the given day Turn to Table LXXX and note the increase of sun's mean long, "s", during that interval Deduct from this, by Table LXXXI, the increase of long during the hours and minutes stated in col 17 of Table XC. The result is the sun's mean long, s, at mean sunrise of given day (111) Add s to a This = n, the required index of the mean nakshatra, or the mean moon's place in the heavens at that moment. Table LXVIII above, or Table VIII, Indian Calendar, will shew in which nakshatra the mean moon stood at the time

In measurement by 10,000ths of circle the total difference in 365 days is 0 09665, by which amount the Brahma-Sidahānta is the greater

# The 19-year intercalation cycle

329 [See Indian Calendar, § 50, p 29, and notes in previous articles above on the working of the cycle by different systems] The sequence in the present case works perfectly regularly except in four instances. In every case except these, after four successive intercalations of the same lunar month at intervals of 19 years each, the intercalated month gives way to the month next preceding it. The exceptions are—a run of five mean intercalary Bhādrapadas between A D 746 and 822, five Āśvinas between 952 and 1009, five Kārttikas between 1120 and 1196, and five Paushas between 1231 and 1307

### Working Tables

330 For general guidance the following Tables, as given for work by the Arya-Siddhanta (above, Vol XVI), should be used, or the similar Tables published in the Indian Calendar

Table LXII, or Ind Cal, Table II, Parts I and II, for names of months and nahshatras
Table LXIIIA, or Ind Cal, Table III, Part I, for collective duration of mean lunar
months

Table LXVIII, or Ind Cal, Table VIII, for indices of tithis, karanas, nakshatras and yōgas.

Table LXIX, or Ind Cal, Table IX, for the serial number of days of the year and their names and numbers in European reckoning

Tuble LXX, or Ind Cal, Table X, for conversion of the indices of tithis, nakshatras and yögas into time

Table LXXI, the European Calendar for 23 centuries [Table XIII, Indian Calendar, may also be used, but the former is easier]

Table XCI below gives the collective duration of mean solar months, measured from the moment of mean Mēsha-samkrānti, the astronomical beginning of the mean solar year, also the increase of a, the mean tithi-index, during the interval

Table XCII shows the value of a at the beginning of each mean solar century of the Kaliyuga, that is to say, its value at mean summer of the day on which each such solar century began

For odd years of such centuries Table LXXXVII (above, Vol XVII) is to be used in conjunction with Table XCII, addition of the two given values of a yielding the value of a at mean sunrise of the day on which each mean year of the Kaliyuga solar century began

For increase of a in subsequent days, hours, etc., in any KY year, or any moment of any day Tables LIVA and B (above, Vol. XV) are to be used

The use of Table XCII1 is explained in § 326 above

Table XCIV-A to F enables the units and decimals of units of results obtained from our system of reckoning in measurement by 10,000ths of a circle, to be converted readily into time, if required The same can be converted into space-measurement in degrees, etc., by Table XLVB (above, Vol XIV)

#### EXAMPLES

[ $\Lambda^*B$ —Work may always be done in whole numbers, resorting to decimals only in close cases]

Example 1 To find the mean tethe-index, or phase of moon, at mean sunrise of the day on which mean Mesha-samkranti occurred in any year

This is a necessary operation for finding the tethr-index a at the moment of mean Mesha-samhranti, which is obtained by addition of the a of subsequent hours, minutes, etc., to the a

of mean summer [The interculation of lunar months is decided by the value of a at the moment of mean Mösha-samkränti] Two cases are considered, A and B

A Take the year Kaliyuga 3851 evpired. This was the Saka year 672 expired. It began (Table XC, cols 13-17) astronomically at  $5^{\rm h}$   $49^{\rm m}$   $39^{\rm s}$  after mean summer on Sunday, 22 March AD 750. We want to know the moon's phase, as shewn by the tithi-index a, at mean summer of that day ["w-d"=week-day]

	u d	a
(Table XCII) At beginning of KY Century 38, mean sunrise (Table LXXXVII) At beginning of KY year 51, do	• •	5100 3761 8036 6243
At mean sunrise on the Sunday in question	(1)	3137 0004

B The year KY 3849, Saka 670 both expired This began (Table XC) at 17^h 25^m 21^s after mean sumise on Thursday, 21 March AD 748. The first result shows the a for mean sumise on Friday, 22 March, and the a for one day has to be deducted. This is due to the fact that Table LXXXVII has to serve for all KY centuries, common or defective. The correction required is never more than that for one day

(Table XCII) At beginning of KY (Table LXXXVII) At beginning of				1750	(0) (6)	5100 3761 835 2749
At mean summe on Finday, 22 Mar Deduct one day's value of a	•	•	•	•	(6) -(1)	5935 6510 -338 6320
At mean sunrise on Thursday, 21 Mar	r			•	(5)	5597 0190

Example 2 To find the civil day corresponding to Chartra sukla 1, or the first civil day of the luni-solar year, and the value of a (place of mean moon) at mean surrise thereon

The civil day corresponding to mean Chaitra sukla 1 is that on which the mean tithi "sukla 1" expired The tithi-index (a=) 3333 marks the last instant of the first sukla tithi, so that we have to find a day on which at mean sunrise the tithi-index a was between 0 and 3333. The amanta lunar month called "Chaitra" begins with the first new moon after the Mina-samkranti, and the civil day called "Chaitra sukla 1" is necessarily earlier than the day on which mean Mesha-sumkranti occurred. We have to find the number of days' interval between those two days. There are two ways of ascertaining these points, one by using Table XCIII and adding its figures.

(1) Take the year in Example 1, A, above The value of a at mean surrise of Sunday, 22 March A D 750, was found to be 3137 0004 We turn to Table XCIII and select in col 3 such a value of a as, added to 3137 0004, will result in a total value of a between 0 and 333 3 This is found to be 6952 3121, the sum of the two (always disregarding quantities over 10,000) being 89 3125. The interval of whole days from mean Mēsha-samkrānti day was 9 (col 1) Adding the number of the week-day (col 2), viz 5, to the week-day of mean Mēsha-samkrānti, viz 1 Sunday, we have the week-day 6 Friday. Mean Mēsha-samkrānti occurred on Sunday, 22 March, and, therefore, it has been determined that the day Chartra śulla 1, the first day of the lumi-solar year, was Friday, 13 March A D 750, on which day, a being 89 3125, Chartra śulla 1 was the current tithi at mean sunrise

Similarly in Example 1, B At mean sunrise of (5) Thuisday, 21 March AD 748, a was 5597 0190 Add (Table XOIII, col 3) 4581 8882 Result 178 9072. The interval of days was

(col 1) 16 The week-day number was 5 The week-day of 21 March was 5 (Thursday) Hence the week-day 16 days earlier was 5+5=3 Tuesday So the beginning of the mean lunisolar year was on Tuesday, 5 March A D 748, on which date at mean sunrise the mean 11/h2 "suhla 1" was current, the value of a at that moment being 178 9072.

The entries in Table XC against these years correspond to these results

(11) The same results are obtained by using Table LIVA (above, Vol. XV) and deducting the figures for the interval of whole days between the two occurrences. We note that value of a in the first 30 days of that Table which is next lower than the value of a already found for the day of mean Mēsha-samkrānti, and deduct the former from the latter. The number of intervening days (col. 1) and the number of week-days (col. 2) stand against the selected entry. This week-day number is deducted, of course, from the week-day of mean Mēsha-samkrānti. Thus—

A	For KY 3851, AD 750	w-d	a.
	(Example 1, A) For mean sunrise on Sunday, 22 March AD 750.	(1)	3137.0001
	(Table LIVA) Next lower value of a, and week-day	<b>-</b> (2)	-3017 6879
	At mean summise of the day Chartra sukla 1	(6)	89 3125

The interval of days (col 1) was nine 6=Friday Hence the day corresponding to Chaitra sukla 1 was Friday, 13 March, and at mean sunrise the mean tithi Chaitra sukla 1 was current, the value of a being 89 3125

B For KY 3849, AD 748

(Example 1, B) At mean sunrise on Thursday, 21 March, (5) 5597 0190 AD 748
(Table LIVA) Next lower value of a, and week-day .-(2) -5418 1118

At mean sunrise of the day Chaitra sukla 1 . . . (3) 178 9072

The interval of days was 16 3=Tuesday Hence the day corresponding to Chartra sulla 1 was Tuesday, 5 March A D 748, and at mean summer the value of a was 178 9072

These results are the same as those found by the former process. The examples enable any worker to prove the correctness of all my entries in cols 19-23 of the general Table XC below

Example 3 To find if a lunar month was or was not intercalated in the given year

It will be enough, for this problem, to refer to Example 3 (above, Vol XVI) of my article on the Arya-Siddhānta—mean system The work here is precisely similar, but for the values of a for hours and minutes Table LIVB (Vol XV above) should be used, and Table XCI for the advance of a during the mean solar months, etc

Example 4 To find the mean tithi-index a, shewing phase of moon, at mean sunrise of any day in the year, or at any moment of any day.

Table XC (cols 19-23) gives the civil day corresponding to mean Chaitra sukla 1 (the initial day of the mean lum-solar year), its serial number (in brackets) from January 1st of the equivalent AD year, and the mean tithi-index a at mean surise. Calculate by Table III, Indian Calendar, or by Table LXIIIA (above, Vol XVI) the interval of whole days from that day to the given day, and, if necessary, the excess of hours, minutes, etc., to the given moment on that day. Add the increment of a for the interval of whole days from Table LIVA and number of days interval and the corresponding week-day.

Eg Required the tithi-index at mean sunrise of the day called "Åshāḍha tukla 4" in Saka 547 expired, or AD 625-26, and the corresponding AD day and week-day

In this year there was no intercalated month. The interval from the day "Chaitra sukla 1" to the day "Āshādha sukla 4" is approximately (Table LXIII-A above, p 335) 93 days. We try this—

Table XC Chartra sukla 1, mean sunrise Table LIVA for 93 days	•	•	d (74) +(93)	w -d (6) (2)	a 184·6508 1492·7746
This value of "a" (Table LXVIII) shews			(167)	(1)	1677 4252
that the 6th subla tithi was current a sunrise : Deduct for 2 days .		ean •	<b>-(2)</b>	<b>~</b> (2)	677 2640
At mean sunrise on Āshādha sukla 4 .	•	•	(165)	(6)	1000·1612

Table LXVIII or VIII Indian Calendar, shews the currency of the 4th sukla tithi, at that mean sunrise, since its first point is when a=1,000 Day 165 was (Table IX, Indian Calendar, or LXIX, above) 14th June AD 625 6=Friday We learn, however, that the 4th mean tithi had begun only about  $\frac{1}{4}$  of a minute before the moment of mean sunrise, so that if the basis of calculation had been the moment of true sunrise (a little earlier than mean sunrise) the corresponding day might have been Thursday, 13 June

Example 5 To find the nakshatra, or place in the heavens of the mean moon, at mean sunrise of any day or of any later moment in the day

Take the case in the last example—It is required to find the value of "n". the nakshatra-index, at mean sunrise of the day called, in the mean system, "Ashāḍha śukla 4" in the given year, AD 625

The mean trthi-index, "a", at that mean sunrise was found to be 1000 1612 Since s+a=n (§ 327 above), we have to ascertain the value of "s", the sun's mean longitude at that moment

The day, 14 June, was the 165th day after Jan. 1 in that year. Mean Mesha-sankranti had taken place on (Table XC, cols. 13-17) the 79th day at 22^h 30^m 54^s after mean sunrise. The day 14 June was (165-79) 86 days later. We proceed as follows—

								-
Table LXXX, p 444	Interv	al of	86 day	8	•	•	•	2354 4957
Less (Table LXXXI)		•		•	•	•	25.0964	
2000 (20000 0000)	30 ^m			•	•	•	0 5704	
	548	-	•	•	•	•	0 0171	
		•						
							25 6839	-256839
At mean sunnse on the	day Āsi	hādha	śukla 4	k sun'	s mea	n long	(,, "s" =	2328 8118
Add "a" as already for	ind for	that n	noment		•	•	• •	1000 1612
At mean sunnise on that	t day "1	ı"=	_			•		3328 9730
The integral profit too on the con-		-	_					

This last is the required nakshatra-index Reference to Table VIII, Indian Calendar, or Table LXVIII (above Vol. XVI) shows that the moon was then in the nakshatra Aslesha by the

equal-space system of division of the ecliptic, which ended when "n" =33333, but that by the system of Garga or the Brahma-Siddhānta (our present authority) she was in Maghā, of which the ending points are respectively 35185 and 34771 Converted into degrees (Table VIII-B. Indian Calendar, or Table XLV-B, above) the moon at that mean summer stood at about 119°51'

For the value of "n" at any later hour of the given day the index-value for the time since mean sunrise must be added (Table LXXXI) to the "n" of mean sunrise. At about 3 hours 50 min. after mean sunrise, for instance, the mean moon entered Maghā by the equal-space system, for the beginning point of that nakshatra is 3333 3. The increase of "n" in 3 hours 50 min. is 4 3728, and 3328 9730+4 3728=3333 3458

Example 6 To find the yoga, "y", at the same moment as in Example 5

The formula for finding the  $y\bar{v}ga$ -index is either s+n="y", the  $y\bar{v}ga$ -index, or, in cases where it is not necessary to calculate n (the nalshaira), 2"s"+a="y" Here, at mean suntificient on 14 June AD 625, we have found "s"=2328 8118 and "n"=3328 9730 The  $y\bar{v}ga$ -index, "y", therefore, =5657 7848, and reference to Table VIII, Indian Calcular, col=12-13, or Table LXVIII (above, Vol XVI, cols 6, 8, 9, 10), shews that the mean moon was at that moment in the  $y\bar{v}ga$  Siddhi Again 2s=4657 6236, and thus +"a," which was found to be 1000 1612=5657 7848, the same as before.

### TABLE XC

#### RI MARKS

KY 3736 expired, AD 635-36 A very close case in the matter of intercalation of lunar month. Mean new moon occurred about 2^m after the moment of the Karka-samkrānti (mean sun at long 90°), and, therefore, at that moment the mean moon was waning, while she was waxing at the next, Simha-samkrānti (mean sun at 120°). Accordingly the intercalated month was Srāvans.

KY. 3923 expired, AD 822-23 According to the 19-year sequence of intercalations the same month is generally intercalated four times running, i.e. at intervals of 19 years each Here, however, is an instance of a fifth intercalation of the same month [See § 329 of text above]

KY 4110 expired, AD 1009-10 A similar case Asvina intercalated for the fifth time

KY 4297 expired, AD 1196-97 Another Karttika intercalated for the fifth time

KY 4408 expired, AD 1307-08 Another Pausha intercalated for the fifth time. This was a very close case The moment of mean new moon was about 1 minute after the mean sun reached the Dhanus-samkrānti (mean sun at long 240°), but she was actually waning at the moment of the samkrānti and was waxing at the next, Makara, samkrānti Consequently the lunar month Pausha was intercalated

TABLE

MECS STRIEM TABLE,

Numbers of columns conform

(Cols 1 to 4) - The years herein stated are the current years corresponding

(Cols 6 and 7) - Samvaisara-names of mean solar years in italies shere cases

			R	RFNT 1EA	ONCUR!	C						
Menn intercalated (adhika) lunar	aana	SAJIVA	Jor				solar year ın	ran -	İ			
month	Northern system		Southern system	A.D	lam	Kol	Möshüdı solar Bengal	Chartradı Vıkran	la.	S	Kalı	
84	7		6	5	4		3a	3	2	-	1	
 2 Vaisikha		50 Anala 51 Pingala		599 600 *600 01		657 6 658 7		522 523		3701 3702		
••	52 Kālayukta			601-02					3703			
10 Pausha	bın	3 Siddhā		602-03		•	1	660	525		3704	
••		4 Raudr		603-04		0	10	661	526	,	\$705	
n 1 .1		5 Durm		*604-05		1	1	662	527	3	3706	
7 Assina	հո	56 Dund		605-06		2	1	668	528	7	3707	
	ödgārın .	57 Rudb		606 07	1	3	1 1	664	529	8	3708	
	sha	68 Bakt		607-08	1	14	5 1	66	580	9	870	
3 Jyështha	ma .	59 Krōd		*608 09	1	15	6 :	66	531	10	871	
•••		60 Keho		609-10		16	7	66	582	11	371	
12 Phälgans	na	1 Prab		610 11		17	38	66	588	12	371	
	70.	2 Vibb		611 12		18	89	4 6	534	13	87	
	•	3 Śuki		*612 13		19	70	5 6	58	714	87	
8 Kārttıla	ida	4 Pra		613-14		20	71	6 6	53	715	37	
	palı	587   672   21   614 15   5 Prajāpati		1	716							
	as	gaA v	717 538 673 22 615 16		717							
5 Śrāvaņa	kha	7 Srii		*616-17		23	674	1	ì	3718		
	a	8 Bhi		617-18		24	675	1	1	8719		
	n .	9 Yu		618-19	1	25	676	41	)   6	872	8	

XC.

Branna-Siddhanta

to Table I, "Induan Calendar."

to the AD. years in col 5, as in Table I, "Indian Calendar"

schere differences exist from Sürya-Siddhanta nomenclature in true solar years

		COM	MEN	CLI	ILNT OF THE			
Mpa	solin 77 in.				MPAN LUNI SOLAT			Kalı
Day and month,	Week-day	me	Limo an M	čsha-	Day and month,	Week-day	a (here=t, the index of the tithi)	
13	1;	-	17		19	20	23	1
21 Mar. (60) 20 Mar (60) 20 Mar (79) 20 Mar (79) 21 Mar (80) 20 Mar (80) 20 Mar (80) 21 Mar (80) 21 Mar (80) 20 Mar (80) 20 Mar (70) 21 Mar (80) 20 Mar (80) 20 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80)	O Sat 1 Sun 2 Mon 3 Tues 5 Thur 6 Fri O Sat. 2 Mon 8 Tues 4 Wed 5 Thur O Sat. 1 Sun 2 Mon. 8 Tues 5 Thur	H 5 11 17 23 6 12 18 0 6 13 19 1 7 18 20 2	M 15 27 39 51 3 15 27 40 52 4 16 28 40 52 5 17	S 0 9 18 27 36 45 54 3 12 21 80 39 48 57 6 15	3 Mar (62) 20 Feb (51) 10 Mar (69) 28 Feb (59) 19 Mar. (78) 7 Mar (67) 24 Feb (55) 15 Mar (74) 5 Mar (64) 22 Feb (58) 12 Mar (71) 1 Mar (60) 20 Mar. (79) 9 Mar (69) 26 Feb (57) 17 Mar (76)	3 Tues 0 Sat 6 Fri 4 Wed 3 Tues 0 Sat. 4 Wed 3 Tues 1 San 5 Thur 4 Wed 1 Sun 0 Sat. 5 Thur 2 Mon 1 Sun	43 3394 78 6718 293 0266 168 7494 203 4218 70 1547 113 8371 328 1918 203 9147 238 5972	3701 3702 3703 3704 3705 3706 3707 3708 3709 3710 3711 3712 3713 3714 3716
21 Mar (80) 20 Mar (80)	6 Fri 0 Sat	8 14	29 41	24 33	6 Mar (65) 24 Fob (55)	5 Thur 8 Tues	114 3199 828 6747	8717 8718
20 Mar (79) .	1 Sun	20	53	42	13 Mar (72)	1 San	24 7252	8719
21 Mar (80)	3 Tues	8	5	51	3 Mar (62) .	6 Fra .	239 0801	8770

## TABLE

Therealate (adhsha) lunar month  Northern system  7 8a  1 Chaitra  10 Pausha  mathin  rama ha 6 Bhādrapada  rabhānu hānu  ma 3 Jyīshtha  thiva  alant  Skārttika  stara  dana  5 Śrāvaņa §							
tri 1 Chastra  tri 1 Chastra  udhānya 10 Pausha māthin .  rama ha 6 Bhūdrapada rabhānu hānu .  tina 3 Jyāshtha thiva .  ya 11 Māgha apit .  railharin idhin 8 Kārttika rita .  saa .  dana 5 Śrāvaņa §	loriya Si	AD	Kellum	Tr. July Kell.			
tri 1 Chaitra  udhānya 10 Pausha māthin .  rama ha 6 Bhādrapada rabhānu hānu .  una 3 Jyāshtha thiva .  ya 11 Māgha apit .  radharm idhin 8 Kārttika rita .  ura .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .  saa .	Southern system	S Keirin An		West ull x	thutter le beke		
udhānya . 10 Pausha māthin . rama ha 6 Bhādrapada rabhānu hānu hānu ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya ya	(1	5	\$	Ja	•	* {	į
udhānya . 10 Paushu māthin . rama ha 6 Bhādrapada rabhānu hānu	10 Dh	619 20		-	177	[12]	.721
māthin .  rama ha 6 Bhūdrapada rabhūnu hānu ana 3 Jyīshtha thisa .  ya 11 Māgha ajit .  radharm idhin 8 Kūrttika rita .  sa .  dana 5 Śrāvaņa §	11 Isv	*620 21		-7	174	*1"	1"_3
rama ha 6 Bhūdrapada rabhānu hānu ana 3 Jyīshtha thisa ya 11 Māgha ant radhanu salana 5 Śrāvana §	12 Bal	621 22		د-	171	ะรร	2***3
ha 6 Bhūdrapada rabhānu hānu ina 3 Jyāshtha thisa  ja 11 Māgha ant rabhānu salara salara 5 Śrāsana §	13 Pra	622 23		_ •	رة.	' * <b>4</b> * '	rea '
rabhānu hānu ina 3 Jyāshtha thisa .  ya 11 Māgha apit .  radharm idhin 8 Kūrttika pita .  raa dana 5 Śrāsaņa §	1; \sk	623 24		20		,	* * *
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this .  ya	16 Ch	625 26		3_	747		***
thisa .  ya . 11 Māgha apit .  salharm idhin . 8 Kārttika pita	17 Sal	625 27		23	, 6 ~ 5		* ** **
11 Māgha ajit cadharm idhin 8 Kārttika pita dana 5 Śrāvaņa §	18 Târ	627 28		1 23	f #=5	<b>.</b>	1200
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### XC-contd

	Č	OMMENCEM	ENT OF THE			
Ne4/	SOLAR TYAR		MPAT LUNI SOLAR Y	FAR (MFAN BU CH CHAITRA É	VRISP OF THE UKLA 1 ENDS)	Kalı
Day and month,	Wook-day	Timo of mean Meshu- samkrünti	Day and month, A D	Wook day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
21 Mar (80)	1 Wed	H M & 9 18 0	20 Feb (51)	3 Tues	114 8028	3721
20 Mar (80) .	5 Thur.	15 30 9	10 Mar (70)	2 Mon	149 4852	8722
20 Mar (79)	6 Fr.	21 42 18	27 lob (58)	6 Fri	25 2081	3723
21 Mar (80)	1 Sun	3 54 27	18 Mar (77)	5 Thur	59 8904	3724
21 Mar (80)	2 Mon	10 6 86	8 Mar (67)	3 Tues	274 2458	8725
20 Mar (80)	3 Tues	16 18 45	25 Feb (56)	0 Sat.	149 9682	3726
20 Mar (79)	4 Wed	22 30 54	15 Mar (74)	6 Frı	184 6506	3727
21 Mar (80)	6 Fr	4 43 3	4 Mar (63)	3 Tues	60 3784	3728
21 Mar (80)	0 Sat	10 55 12	22 Fob (53) .	1 Sun	274 7282	3729
20 Mar (80)	1 Sun	17 7 21	12 Mar (72)	O Sat.	309 4106	8780
20 Mar (79)	2 Mon	23 19 30	1 Mar (60)	4 Wed.	185 1834	3731
21 Mar (80)	4 Wed	5 31 39	20 Mar (79)	3 Tues	219 8158	8732
21 Mar. (80)	5 Thur	11 43 48	9 Mar (68)	0 Sat	95 5387	8793
20 Mar (80) .	6 Fm.	17 55 57	27 Feb (58)	5 Thur	309 8935	8734
21 Mar (80)	1 Sun.	0 8 6	16 Mar (75)	3 Tues	5 9489	8785
21 Mar. (80)	2 Mon	6 20 15	6 Mar (65)	1 Sun	220 2987	3736
21 Mar, (80)	8 Tues	12 82 24	23 Feb (54)	5 Thur	96 0216	3737
20 Mar. (80) .	4 Wed	18 44 33	13 Mar (73)	4 Wed	130 7040	3738
21 Mar (80) .	6 Fn	0 56 42	2 Mar (61)	1 Sun	6 4268	3789
21 Mar (80)	O Sat	7 8 51	20 Feb (51)	6 Fm	220 7816	3740
21 Mar (80)	1 Sun	13 21 0	11 Mar (70)	5 Thur .	255 4640	3741
20 Mar (80)	2 Mon	19 88 9	28 Feb. (59)	2 Mon	131 1868	3742
21 Mar. (80)	4 Wod	1 45 18	18 Mar (77)	1 Snn	165 8692	3743
21 Mar (80)	5 Thur	7 57 27	7 Mar (66)	5 'I'nur .	41 5921	3744
21 Mar (80) .	. 6 Fr	. 24 9 38	25 Feb (58) .	3 7 nea	255 9470	3745

TABLE

				CONC	JRRENT YEA	.R		
	Saka I Vikrama.				JOVIAN SA	MVATSARA.	Mean intercalated (adhika) luna	
Kalı	Śaka	Chartrādı Vıkrama.	Mēshādı solt Bengal	Kollam	AD	Sonthern system	Northern system	montb
1	2	8	8a	4	5	6	7	8a
3746	567	702	51		*644 45	35 Pla	\a	
3747	568	703	52		645 46	36 Śub	hakrit	
748	569	704	53	}	646-47	37 Śōb	•	3 Jyīshtha
3749	570	705	54	}	647-48	38 Kri		
8750	571	706	55		*648 49	39_Visvāvasu †		11 345-4-
<b>3751</b>	572	707	56		649 50	41 Plananga		11 Māgha
3752	578	708	57		650 51	42 Ki		1
8753	571	709	58	1	651-52	43 Sa		
3754	575	710	59		*652-53		umya dhārana	8 Kārttika
3755	576	711	60		653-54			
3756	577	712	61	1 8	654 55		<i>rödhakrıt</i> rıdhävın	
3757	578	713	62		655 56		ridnavin amādin	4 Āshādha
<b>3758</b>	579	714	63		*656 57	48 An		• • • • • • • • • • • • • • • • • • • •
3759	580	715	1	1	657-58		anga ikshasa	1
3760	581	716	65		658 59	49 Au		1 Chartra
3761	582	717	66	3	659 60	50 An	•	
3762	583	718	3 67	7	*660 61		ngula ilay ukta	9 Mārgasıra
3769	58	4 719	9 61	В	661-62		ldhärthin	1
3764	58	5 72	0 6	9	662 68			
376	5 58	6 72	1 7	0	663 64	54 Raudra 55 Durmatı		6 Bhadrapad
376	6 58	7 72	2 7	1	*664 65		andabhi	
376	1	38 72	3 7	72	665-66		adhirödgärin	
876		39 79	24 7	78	666 67		aktaksha	. 2 Va_€ākha
d7t	1	- 1	25	74	667-68		rodhana	"
377	70 5	91 7	26	75	*668-69		shaya .	. 11 Māgha

^{† 40} Parabhaya was suppressed, both in mesu and true reckoning

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		ENCEM	ENT OF THE	······						
Mean solar year  Mean Luni soiar year (mean sunrise of the civil day on which Chaitra surla 1 ends)										
Day and month, A D	Week-day	Time of mean Mesha- samkranti	Day and month,	Week-day	a (here = t, the index of the tithi)	Kal				
13	14	17	19	20	23	1				
20 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 20 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80) 21 Mar (80)	0 Sat. 2 Mon 3 Tues 4 Wed 5 Thur 0 Sat. 1 Sun 2 Mon 8 Tues 5 Thur 6 Fri	9 34 39 15 46 48 21 58 57 4 11 6	15 Mar (75) 4 Mar (68) 21 Feb (52) 12 Mar (71) 1 Mar (61) 20 Mar (79) 9 Mar (68) 26 Feb (57) 16 Mar (76) 6 Mar (65) 28 Feb (54)	2 Mon 6 Fri 3 Tues 2 Mon 0 Sat 6 Fri 3 Tues 0 Sat 0 Sat. 4 Wed 1 Sun	290 6293 166 3522 42 0750 76 7673 291 1122 825 7946 201 5175 77 2402 111 9227 826 2775 202 0003	3746 3748 3749 3750 8751 3752 3753 3754				
21 Mar (80) . 20 Mar (8C) 21 Mar (80) . 21 Mar (80) . 21 Mar (80) . 21 Mar (80) . 22 Mar (80) . 23 Mar (80) . 24 Mar (80) . 25 Mar (80) . 26 Mar (80) . 27 Mar (80) . 28 Mar (80) . 29 Mar (80) . 30 Mar (80) . 31 Mar (80) .	1 Sun 3 Tues 4 Wed 5 Thur 6 Fri. 1 Sun 2 Mon 3 Tu s 5 Thur 6 Fri 0 Sat.	22 47 83 4 59 42 2 11 11 51 1 17 24 0 2 2 3 86 9 18 2 0 27 24 8 12 36 18 0 24 45 4 6 86 54 21 2 49 3 12	0 Feb (51) 0 Mar (69) 8 Veb (59) 8 Mar (78) 7 Mar (66) 4 Feb (55) 5 Mar (74) 4 Mar (64) 2 Feb (52) 6 Mar (71) 5	Fr	236 6827 112 4056 326 7604 22 8108 237 1656 271 8450 147 5708 23 2937 57 9761 272 3310 148 0537 182 7861 58 4590	8756 8757 8758 8759 8760 8761 8762 8768 8764 \$765 3766 3766 8767 \$768				

				CONC	JRRENT YEA	AR			
	6.	ıkrama	ar year m		_	Jovian Sa	AMVATSABA		Mean intercalated (adhika) lunar month
Kalı	Šala	Chaitrádi Vikrama	Mčshādı solar year Bongal	Kollam	A.D	Southern system	Northe system		шонси
1	2	3	3a	4	5	6	7		8a
3771	592	727	76		669-70	1 Pr	abhaya		
9772	593	798	77		670-71		bhava .		7 Asvina
3773	594	729	78	}	671-72	3 Su			
3774	595	730	79		*672-73		amõda .		
3775	596	731	80		673-74		ajāpatı .	1	4 Āshādha
8776	597	732	81		674-75		igiras .		•••
3777	598	733	82		675-76		īmukha		1
3778	599	784	83		*676-77	8 Bi			1 Chartra
8779	600	785	84		677-78	9 Y1	avan .		•••
3780	601	736	85	A	678-79	10 Di	hātrı .		9 Mārgasura
3781	602	737	86		679-80	11. 14	vara .		•••
8782	603	738	87		#680-81	12 B	ahudhānya		
3783	604	739	88		681-82		ramāthm .		6 Bhādrapada
3784	605	740	89		682-83	14 V	ikrama	1 13	***
3785	606	741	90		683 84	15 V	risha		344
8786	607	742	91		*684 85	16 C	hitrabhānu		2 Valsākha
8787	1	1	1		685-86	17 S	. pakda		
8789	}	} ``	1		686 87	18 T	ārana .		11 Mägha
3769			1		687-88	19 P	årthiva .		
3790 3791			1	1	*688-89	20 V	yaya .		
879:	1	1	1	1	689-90	21 S	arcajit .		7 Āśvina
370	i	1	1	4	690-91	22 S	arvadhärm		•••
379	1 -	1	1		691-92	23 Y	'irodhin .		
872	1		•		*692-93	24 V	Vikrita .		4 Ashādha
		1 "	_ 10		693-94	25 1	Khara		•••

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		COM	MEN	CE	IENT OF THE			
Mean	SOLAR YEAR				MFAN LUNI-80LAR CIVIL DAY ON WH	Kalı.		
Day and month,	Weck-day.	mo	limo in M mkri	čsha-	Day and month,	Week-day	a (here=t, the index of the tethi)	
13	14		17		19	20	23	1
		H	M	B				
21 Mar (80)	4 Wed	7	25	30	9 Mar (68)	6 Fri	807 4962	8771
21 Mar (80)	5 Thur	18	37	89	26 Feb (57)	3 Tues	183 2190	8772
21 Mar (80) .	6 Fr	19	49	48	17 Mar (76)	2 Mon	217 9015	3 <b>773</b>
21 Mar (81)	1 Sun	2	1	57	5 Mar (65)	6 Fr	98 6242	3774
21 Mar (80) .	2 Mon	8	14	6	23 Feb (54)	4 Wed	807 9791	8775
21 Mar (80)	8 Tues	14	26	15	13 Mar (72)	2 Mon	4 0295	8776
21 Mar (80)	4 Wed.	20	38	24	8 Mar (62)	0 Sat	218 3843	8777
21 Mar (81)	6 Fri	2	50	83	20 Feb (51)	4 Wed.	94 1071	3778
21 Mar (80)	0 Sat.	9	2	42	10 Mar (69)	3 Tues .	128 7896	3779
21 Mar (80)	1 Sun	15	14	51	27 Feb (58)	0 Sat.	4 5124	3780
21 Mar. (80)	2 Non	21	27	0	18 Mar (77)	6 Fr	89 1947	8781
21 Mar (81) .	4 Wed	8	89	9	7 Mar (67)	4 Wed .	253 5496	3782
21 Mar (80)	5 Thur	9	51	18	24 Feb (55)	1 Sun .	129 2725	8788
21 Mar. (80)	6 Fri	16	8	27	15 Mar (74)	O Sat .	163 9549	3784
21 Mar (80) .	O Sat	22	15	86	4 Mar. (68)	4 Wed .	89 6776	3785
21 Mar (81)	2 Mon	4	27	45	22 Feb. (53)	2 Mon	254 0325	3786
21 Mar (80)	8 Tues	10	89	54	12 Mar (71)	1 Sun	288 7149	3787
21 Mar (80)	4 Wed	16	52	3	1 Mar (60)	5 Thur	164 4377	8788
21 Mar (80)	5 Thur	23	4	12	20 Mar (79)	4 Wed	199 1200	8789
.21 Mar (81)	0 Sat.	5	16	21	8 Mar (68)	1 San	74-8430	8790
21 Mar (80)	1 Sun .	11	28	30	26 Feb (57)	6 Fr	289 1978	8791
21 Mar. (80)	2 Mon .	17	40	89	17 Mar (76)	5 Thur	828 8802	8792
21. Mar. (80)	8 Tues .	23	52	48	6 Mar (65)	2 Mon	199 6080	8798
21 Mar (81)	5 Thur	6	4	57	28 Feb. (54)	6 Fr	76 8259	8794
21 Mar. (80) .	6 Fri.	12	17	6	18 Mar. (72)	5 Thur.	110 0082	8796

				C	ONCU	RRENT Y	EAR			
		ama.	year in				Jovian Sa	MVATSABA.		Mean intercalated (adhika) lunar
Kalı.	Saka.	Chatrādı Vikrama.	Měshādı solar Bengal	Koll	am	AD.	Southern system	Northern system		month
1	2	3	3a		4	5	6	7		
3796	617	752		1		694-95 695-96	26 Na 27 Vı		1	12 Phālguna
3797	618	759	Į.	1		*695-97	28 Ja			
3798 3799	619			1		697-98		nmatha	- 1	9 Mārgasira
3800	621	1	1	- 1		698-99		ırmukha	}	•
3801	622	1		1		699 700	31 H	ēmalamba		•
8802	629			1		*700 01	32 V	lamba	. ]	5 Śrāvana
3803	62	1 75	9   10	8		701 02	33 V	ıkārın		• •
3804	62	5 76	0 10	19		702-03	84 Śi	āryarın .		•
3805	62	6 76	1 11	10		703 04	35 P	lava		2 Vaišākha
3806	62	7 7	2 1	11		*704-05	36 Ś	ubhakrit	. ]	
3807	7 6	3 7	33   1	12		705 06	87 Ś	õbhana	.	10 Pausha
380	S 6	29 7	64 1	13		706-07	88 E	Crodhin .	•	
380	9   6	30 7	65 1	14		707-08	39 V	7 เร่ง ลิง ละน		••
381		1	}	15		*708-09		Parābhava	•	7 Aśvina
381	- 1	- 1	- 1	116		709-10	1	Plavanga		***
381	1	- 1	1	117		710-11		Kīlaka	•	
	•	684 685	1	118		711-12		Saumya		4 Ashādha
	315	636	771	120		*712-18 713-1	1	Sādbāraņa .	•	20.00-1
	816	637	772	121		714-1		Vırödhakrıt Parıdhävın .	•	12 Phalguna
3	817	638	778	122		715-1		Pramādin .	•	
:	818	639	774	123		*716-1		Ānanda .		9 Märgasīru
1	3919	640	775	124		717-1	<b>,</b>	Rākshusa		-
:	8620	841	778	125		718-1	19 50	Anala .		1

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	CC	MMENCEME	ENT OF THE			
Mean a	OLAR TEAR.		MEAN LUNI-SOLAR Y	Kalı.		
Day and month,	Week-day.	Time of mean Mësha- samkränti	Day and month, A.D.	Week-day.	a (here=t, the index of the tiths)	
13	14	17	19	20	23	1
21 Mar. (80)	0 Sat	H M. S. 18 29 15	8 Mar. (62) .	3 Tues .	824 8631	8798
22 Mar (81)	2 Mon	0 41 24	21 Mar. (80) .	1 Sun	20 4135	8797
21 Mar (81)	8 Tues .	6 58 88	10 Mar. (70)	6 Fr1	234-7683	8798
21 Mar. (80)	4 Wod.	13 5 42	27 Feb. (58)	3 Tuos	110 4911	8799
21 Mar (80)	5 Thur	19 17 51	18 Mar (77)	2 Mon	145 1785	8800
22 Mar (81) .	0 Sat.	1 80 0	7 Mar (66) .	6 Fri.	20 8963	8801
21 Mar (81)	1 Sun	7 42 9	25 Feb (56) .	4 Wed.	235 2512	3802
21 Mar (80)	2 Mon	18 54 18	15 Mar. (74)	3 Tues	269 9386	3808
21 Mar (80) .	3 Tues	20 6 27	4 Mar. (63)	0 Sat	145 8584	8804
22 Mar. (81)	5 Thur	2 18 86	21 Feb (52) .	4 Wed.	21 8792	8805
21 Mar. (81)	6 Fr1.	8 30 45	11 Mar (71)	8 Tues	56 0616	8806
21 Mar (80)	0 Sat	14 42 54	1 Mar (60) .	1 Sun.	270 4164	8807
21 Mar. (80)	1 Sun .	20 55 8	20 Mar (79)	0 Eat.	305 0988	8808
22 Mar (81)	3 Tues	8 7 12	9 Mar (68)	4 Wed	180 8217	8809
21 Mar. (81)	4 Wed	9 19 21	26 Feb (57)	1 Sun	56 5444	8810
21 Mar. (80)	5 Thur.	15 81 80	16 Mar (75)	9 Sat.	91 2269	3811
21 Mar. (80)	6 Fra.	21 43 89	6 Mar (65)	5 Thur.	805 5817	3812
22 Mar (81) .	1 Sun	8 55 48	28 Feb (54)	2 Mon	181 8046	3818
21 Mar (81)	2 Mon	10 7 57	18 Mar (78)	1 Sun .	215-9869	3814
21 Mar (80) .	3 Tues	16 20 6	2 Mar (61)	5 Thur.	91 7098	8815
21 Mar. (80)	4 Wed	22 82 15	21 Mar (80)	4 Wed	126 3922	3816
22 Mar (81)	6 Fr	4 44 24	10 Mar (69)	1 San	2 1150	8817
21 Mar. (81)	O Sat.	10 56 83	28 Feb (59)	6 Fra	216 4698	8818
21 Mar. (80)	1 Sun .	17 8 42	18 Mar (77)	5 Thur	251 1682	3819
21 Mar. (80) .	2 Mon .	28 20 51	Mar (66)	2 Mon	126-8751	8820

				CONC	IRRENT YEA	R.		
		krame.	solar your in			Jovian Sa	MVATSABA.	Mean intercalated (adhika) luna
Kalı	Śaka	Chaitridi Vikrains.	Meshiida solo Bengal	Kollam	AD.	Southern system.	Northern system	month
1	2	3	8a	4	В	6	7	8a
3821	642	777	126		719 20	51 Pin	onla	5 Śrūvana
8822	643	778	127		*720 21	52 Kai		
3823	644	779	128	}	721-22		lbärthin .	
8824	645	780	129		722-23	54 Rat	•	2 Vaisālha
3825	646	781	130	{	723-24	55 Dn		2 VEISRAIR
3828	647	782	131		*724-25	56 Da		10 70 1
2827	648	783	182		725-26			10 Pausha
3828	649	784	133		726-27		dhırödgärın . ktäksha	
3829	650	785	1		727-28		•	
8830	651	786	1	}	*728-29	59 Kr		7 Asvina
3831	652	1	1	3	729-30	60 Ks	•	
3832	653	,,,,	1	Į.	730-31		abhava	•
3833	654	1 /-		1	731-32	•	ь агаб	. 3 Jyeshtha
3834	•	1 '			*732-83	3 Śa:		•
2835	1	1 "	}		783-34		ambda .	12 Phālguna
3836		1 "			734-35		ajāpati† ·īmukha	• •••
3837	7 65	- 1			735-36			
3838		- 1	- 1	1	*736-37		hāra .	8 Kärttika
383	9 66	. 1	95 14	j	737-88		uvan .	
384	0 6	51 7	1	45	738-39		hāirı fvara	•
884	1 6	32 7	- 1	48	739-40		ahudhânya	5 Srāvana
334	2 6	83 ] 7	98 1	47	*740 41		ramāthin .	•
884		64 7	99 1	48	741-42		ikrama	
384		65 8	00 1	49	742-43		trapa	1 Chartra
38	k5   6	66   8	101	50	743 44		pitrabhanu tinin	•

[†] No 6 Abgiras was suppressed according to the mean system By the Brahma-Siddhānia 'true' system K Y. 3837, A.D. 734-735, was called Auguras, 7 Srimakha being suppressed. K Y 3837, A.D. 735-30, was 8 Bhāva by both

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	CC	OMM	ENC	EME	NT OF THE			
Mean	BOLAR YEAR				MEAN LUNI-SOLAR Y	year (Mean 8 ch Chaitra ś	UNRISE OF THE UKLA 1 ENDS)	Kalı
Day and month, A.D.	Week-day	mea	ime in Më mkrë	esha-	Day and month, A D	Week-day	a (here=t, the index of the tethi)	
13	14		17		19	20	23	1
		H	M	8			-	
22 Mar (81)	4 Wed.	5	88	0	24 Feb (55)	6 F11	2.5979	3821
21 Mar (81)	5 Thur	11	45	9	14 Mar (74)	5 Thur	87 2803	3822
21 Mar (80)	6 Fr:	17	57	18	4 Mar (63)	3 Tues .	251 6352	3823
22 Mar (81)	1 Sun	0	9	27	21 Feb (52)	0 Sat	127 3579	3824
22 Mar (81) .	2 Mon	6	21	36	12 Mar (71)	6 Fra .	162 0403	8825
21 Mar (81)	3 Tues	12	38	45	29 Feb, (60)	3 Tues	37 7632	3826
21 Mar (80)	4 Wed	18	45	54	19 Mar (78)	2 Mon	72 4457	3827
22 Mar (81)	6 Fr	0	58	3	9 Mar (68) .	0 Sat.	286 8004	8828
22 Mar (81)	0 Sat.	7	10	12	26 Feb (57)	4 Wed	162 5283	8829
21 Mar (81)	1 Sun	13	22	21	16 Mar (76)	3 Tues	197 2057	2830
21 Mar (80)	2 Mon	19	84	80	5 Mar (64)	O Sat	72 9284	3831
22 Mar (81)	4 Wed	1	46	39	23 Feb (54)	5 Thur	287 2838	3882
22 Mar (81)	5 Thur	7	58	48	14 Mar (73)	4 Wed	921 9657	3833
21 Mar (81)	6 Fri .	14	10	57	2 Mar (62)	1 Sun	197 6886	3834
21 Mar (80) .	0 Sat.	20	23	6	21 Mar (80)	0 Sat	232 3709	3835
22 Mar (81) .	2 Mon	2	35	15	10 Mar. (69)	4 Wed	108 0948	3836
22 Mar (81)	3 Tues	8	47	24	28 Feb (59)	2 Mon	822 4486	3837
21 Mar (81)	4 Wod	14	59	33	17 Mar (77)	0 Sat	18 4990	3838
21 Mar (80)	5 Thur .	21	11	42	7 Mar (66)	5 Thur .	232 8538	8839
22 Mar (81)	0 Sat	3	23	51	24 Feb (55)	2 Mon	108 5767	3840
22 Mar (81)	1 Sun	9	36	0	15 Mar. (74)	1 Sun	143 2591	3841
21 Mar (81)	2 Mon	15	48	9	3 Mar. (63)	5 Thur	18 9819	3942
21 Mar (80)	3 Tues	22	0	18	21 Feb. (52)	3 Tues.	233 3367	3943
22 Mar (81)	5 Thur	4	12	27	12 Mar (71) .	2 Mon.	268-0191	3844
22 Mar (81)	G Fr	10	24	36	1 Mar (60) .	6 Fri	143 7420	3845

TABLE

				CONCU	RRENT 1E	AR,		
Kalı	Śaka	Chattrādi Vikrsma	dı solar year ın al	Kollam	AD.	JOVIAN SA	WYATRARA  Northern	Nesn Interculated (adkita) lan i month
		Charte	Mēsbādı Bengal			system	system.	
1	2	3	3a	4	5	6	7	82
846	667	802	151	٩	*744-45	17 Sub	าไรดีทา	
847	668	803	152		745 46	18 Tür		
848	669	108	153		746-47	19 Pār	•	
849	670	805	154		747-48	20 Yy		· 6 Bhā lrapala
850	671	806	155		*748 49	20 vyr 21 Sar	-	
951	672	807	156		749-50		vajto .	
852	678	808	157		750-51	23 Vir		· 8 Jyrsktha
85 :	674	809	158		751-52	24 Vık	-	
<b>954</b>	675	810	159		*752-53	25 Kh		· 12 Phālguna
855	676	811	160		753 54	26 Nan		
856	677	812	161		754 55		-	1
857	678	818	162	1	755 56	27 V1j:		8 Kürttıla
858	679	814	163	١	*756-57	29 Jay		
3859	680	815	164		757-58		nmatha	1
860	681	816	165		758-59		rmukha . nalamba	5 Srāvana
3861	682	817	166		759-60	32 Vile		1
8862	688	818	167		*760 61	88 Vik		
3963	684	819	168	Į.	761-62	84 Śār		1 Chaitra
8864	685	820	169		762-63	- 35 Pla	•	
3965	686	821	170		768 64	- 35 Pin 86 Sub	•	. 10 Paushn
8866	687	822	171		<b>*784-85</b>	30 Sub		• • •
8867	688	823	172		785-66	88 Kra		
3868	689	824	178		768-67		-	6 Bhādrapada
3860	690	825			767-68	89 V15		
3870	691	826	175		*768 69	41 Pla	ābhaya .	

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	C	MMC	ENC	EMJ	ENT OF THE				
Mean	SOLIE YEAR				Mean luni solar tear (mean sunrise of the civil day on which Chaitra sukla 1 rnds)				
Day and month,	Week-day	mea	ime n Mä nkrä	sha-	Day and month,	Week-day	a (here=t, the index of the tithi)		
18	14		17		19	20	23	1	
21 Mar (81)	O Sat.	H 16	M. 36	5. 45	19 Mar (79)	5 Thur	178 4248	384	
21 Mar (80)	1 Sun	22	48	54	8 Mar (67)	2 Mon	54 1472	384	
22 Mar (81)	3 Tues .	5	1	3	26 Feb (57)	0 Sat.	268 5021	384	
22 Mar (81) .	4 Wed .	11	18	12	17 Mar (76)	6 Fri	303 1844	384	
21 Mar (81)	5 Thur	17	25	21	5 Mar (65)	3 Tues	178 9072	388	
21 Mar (80)	6 Fr.	23	37	80	22 Feb (53)	0 Sat.	54 6301	388	
22 Mar (81)	1 Sun	5	49	39	13 Mar (72)	6 Fri	89 3125	388	
22 Mar (81) .	2 Mon	12	1	48	3 Mar (62)	4 Wed	303 6673	385	
21 Mar (81)	. 3 Tues	18	13	57	20 Mar. (80)	2 Mon	9999-7177§	885	
22 Mar (81)	5 Thur	0	26	6	10 Mar (69)	0 Sat	214 0726	885	
22 Mar (81)	6 Fri	6	38	15	27 Feb (58)	4 Wed	89 7958	385	
22 Mar (81)	0 Eat	12	50	24	18 Mar (77)	3 Tues	124 4778	385	
21 Mar (81)	1 Fun	19	2	33	6 Mar (66)	0 Sat.	0 2006	385	
22 Mar (81)	3 Tues	1	14	42	24 Feb (55)	5 Thur	214 5555	885	
22 Mar (81)	4 Wed	7	26	51	15 Mar (74)	4 Wed	249 2378	386	
22 Mar (81) .	5 Thur	13	39	0	4 Mar (63)	1 Sun	124 9607	386	
21 Mar (81)	6 Fm	19	51	9	21 Feb (52)	5 Thur	0 6835	886	
22 Mar (81)	1. Sun.	2	8	18	11 Mar (70)	4 Wed	35 3658	386	
22 Mar (81)	2 Mon	8	15	27	1 Mar (60) .	2 Mon	249.7207	3864	
22 Mar (81)	3 Tues	14	27	86	20 Mar (79)	1 San.	284 4031	3868	
21 Mar (81)	4 Wed	20	39	45	8 Mar (68)	5 Thur	160 1261	3866	
22 Mar (81)	6 Fri	2	51	54	25 Feb (56)	2 Mon	85 8488	8867	
22 Mar (81) .	Q Sat.	9	4	3	16 Mar. (75)	1 Sun .	70 5312	3848	
22 Mar (81)	1 San	15	16	12	6 Mar (65)	6 F11	284 8860	3869	
21 Mar (81) .	2 Mon	21	28	21	23 Fob (54) .	3 Tues.	160 6088	3870	

			CONC	URBENT YE	EAR.		
Kalı Saka	Chatrādı Vıkrama.	Meshadı solar year ın Bengal	Kollam	A.D	JOVIAN SA	Northern system	unterested (adhif a) lungmouth
1 2	3	3a	4	5	6	7	- b1
8871 692 8872 693 8878 694 8874 695 8876 696 8876 697 8877 698 8878 699 8879 700 8881 702 8881 702 8882 703 8883 704 8884 705 8885 706	827 828 829 830 831 832 833 834 835 836 837 838 839	176 177 178 179 180 181 182 183 184 185 186 187 188		769 70 770-71 771-72 •772-78 778 74 774-75 776-76 •776-77 777-78 778 79 779-80 •780 81 781-82 782 83	46 Pari 47 Prai 48 Āna 49 Rāk 50 Ana 51 Prag 52 Kāla	imva hārana idhakrit dhāvin mādin nda shasa la rala syukta hārthin	11 Māgha 8 Kārttika 4 Āshādha 1 Chaitra
3888     707       3888     708       3888     709       3889     710       3890     711       3891     712       3892     718       3893     714       3894     715	841 842 843 844 845 846 847 848 849	190 191 192 193 194 195 196 197 198		788-84 *784 85 785 86 786 87 787-88 *788 89 789 90 790-91 791-92 *792 93	56 Dun 57 Rudi 58 Raki 59 Krōc 60 Ksha 1 Prab 2 Vibla 3 Śukli 4 Pram	dubhi lurõdgärin iäksha lhana iya hava ava	6 Bhādrapada .  3 Jyčshtha . 11 Māgha

XC-contd

	C	MME	NCEMI	ENT OF THE			
Mean	SOLAR YPAR			MPAN LUNI SOLAR S CIVIL DAS ON WHIC		Kalı	
Day and month, A D	Wook-day	mean	no of Mēslia- .iänti	Day and month, A D	Week day	a (here = t, the index of the tithi)	
13	11	1	7	19	20	23	1
22 Mar (81)	4 Wod		M S	13 Mar (72) .	2 Mon	195 2912	3871
22 Mar (81)	5 Thur	1	52 39	2 Mai (61) .	6 Fr	71 0141	3872
22 Mar (81)	6 Tu	16	4 48	21 Mar. (80)	5 Thur	105 6965	3873
21 Mar (81)	0 Sat	1	16 57	10 Mar (70)	3 Tues	820 0513	3874
22 Mar (81)	2 Mon	1	29 6	27 Feb (58)	O Sat	195 7741	3875
22 Mar (81)	3 Tues	1	11 15	18 Mar (77)	6 F11	230 4566	3876
22 Mar (81)	4 Wed.	16	53 24	7 Mar (66)	3 Tues	106 1793	3877
21 Mar (81)	5 Thar	23	5 33	25 Teb (56)	1 Sun	320 5342	3878
22 Mar (81)	0 Sat	5	17 42	14 Mar (73)	6 F11	16 5846	3879
22 Mar (81)	1 Sun	11 2	29 51	4 Mar (63)	4 Wed .	280 9895	3880
22 Mar (81)	2 Mon	17	<b>12</b> 0	21 Fob (52)	1 Sun .	106 6622	8881
21 Mar (81)	3 Tues	23	54 9	11 Mar (71) .	0 Sat	141 3446	3882
22 Mar (81)	5 Thur	6	6 18	28 Feb (59)	4 Wed .	17 0675	8888
22 Mar (81)	6 Fri	12	18 27	19 Mai (78) .	3 Tues	51-7499	3884
22 Mar (81)	0 Sut	18	80 86	9 Mar (68) .	1 Sun .	266 1047	888
22 Mar (82)	2 Mon	0	42 45	26 Feb (57)	5 Thur.	141 8276	3886
22 Mar (81)	3 Tues	6	54 54	16 Mar (75)	4 Wed	176 5100	3882
22 Mar (81)	4 Wod	13	7 8	5 Mar (64) .	1 Sun .	52 2327	3888
22 Mar (81)	5 Thur	19	19 12	23 Feb (54)	6 Fn .	266 5876	888
22 Mai (82)	0 Sat	1	31 21	13 Mar (78) .	5 Thur	301-2700	8890
22 Mar (81)	1 Sun	7	43 30	2 Mar (61)	2 You .	176 9929	8891
22 Mar (81) .	2 Mon	13	<b>55 3</b> 9	21 Mar (80)	1 Sun	211 6752	387
22 Mar (81)	3 Tues	20	7 48	10 Mar (69)	5 Thur	87 3981	3898
22 Mar (82)	5 Thur	2	19 57	28 Fob (59) .	3 Tues	301 7530	3894
22 Mar (81)	6 Fri	. 8	32 6	17 Mar (76)	1 Sun .	9997 8033 §	3895

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						CON	UR	RENT	YEAR.					
			racin.	year in	1					JOVIAN	Samvateara		inte	Mean orcalated oka) lunar uonth
Kalı	Śak	Chartradi Vikraria-		Mēshādi solar year ın	Bengal	Kollam		A.D		Southern system	North system			поиси
1	2	- -	3	3	a	4	5			6 7				8a
3898 3897	7	717 852 201 718 853 202 719 851 203			794 9 795-9 *796 9	6	7 Śrimukha . 8 Bhāva 9 Yuvan			4.2				
3898	1		85. 85	-	203		1	797 98		10 Dhātrı				***
8899				798-	i i		Iśvara		. 1	Chaitra .				
8901	0 122 000		- {	799 8	- (	19	Bahudhānya		1	. 9				
3902	- 1	723		58	207			*800	01	13 Pramāthın		•	9	Mārgasīra
890	3	724	859 208			801	-02	1	4 Vikrama		1			
390	4	725	s \ ε	60	209			802-03		1	5 Vrisha .	•	1	••
890	5	72	5 6	361	21	0		808	04	1	6 Chitrabhanu	•	6	Bhādrapada
890	06	72	7	862	21	1		*80	1-05	1	7 Subhānu			***
39	07	72	28	863	21	.2		80	5-06	18 Tārana		1	***	
89	08	7:	29	864	2	13		80	6 07	:	19 Pārthīva		1 2	Varšākha.
39	909	7	80	865	2	14		80	7-08		20 Vyaya	•		
_	910	13	/31	866	2	15		1	9 60 80		21 Sazvajit	•	1	l Māgha
	911	1	732	867	- 1	216		1	09-10		22 Sarvadhārın			•
	3912	١	733	86	- 1	217		- 1	10 11		23 Virodhin			
	3913 2914	- 1	784 735	86	70	218		1	311-12		24 Vikpita			7 Aśvina
	391	- }	736	1	71	219		i	812-13 813 14		25 Khara	•	1	• •
	3,1	- 1	737	1	72	221			814-15		26 Nandana 27 Vijaya	• •		4 Āshādha
	311	- 1	738	1	373	222		1	815-16	1	27 Vijaja 28 Jaja	•		a ventions
	39	18	73	1	874	223			*816-17	1	29 Manmaths			- 12 Phälguna
	39	19	74	c	875	224		1	817-18	l	30 Durmukh			•••
	39	20	74	1	876	225		1	818-19	1	31 Hēmalam		1	***

^{† 22} Vilamba was suppressed by mean reckoning. By Brahma-Siddhānta "true" reckoning the year K Y 3921, A.D 819 20, was 32 "Vilamba," and 33 Vikārin was suppressed.

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	cc	MMENCEN	ENT OF THE					
DIPAN	SOLAR TEAR.		Mran i uni solar : civil day on whi	Mean i uni solar ypar (mpan sunrise of the civil day on which Chaitra sukla 1 ends)				
Day and month, A D.	Weok-day.	Time of mean Mēsha samkrānti	Day and month,	Wool day	a (here = t, the index of the tithi)			
13	14	17	19	20	23	1		
22 Mar (81)	0 Sat	H M S	7 Mar (66)	6 F11	212 1581	3896		
22 Mar. (81) .	1 Sun	20 56 24	24 Feb (55) .	3 Tues	87 8810	3897		
22 Mar (82) .	3 Tue:	3 8 33	14 Mar (74) .	2 Mon	122 5683	3898		
22 Mar (81)	4 Wod	9 20 42		6 F11 .	9998 2862§	8899		
22 Mar (81)	5 Thur.	15 32 51	21 Feb (52)	4 Wed	212 6410	3900		
22 Mar (81)	6 Гті	21 45 0	12 Mar (71)	3 Tues	247 3234	3901		
22 Mar (62)	1 San	3 57 9	29 Feb (60) .	0 Sat	123 0463	3902		
22 Mar (81)	2 Mon	10 9 18	19 Mar (78)	6 Frı	157 7287	3903		
22 Mar (81)	3 Tues.	16 21 27	8 Mar (67) .	3 Taes	88 4515	3904		
22 Mar (81)	4 Wed	22 33 36	26 Feb (57)	1 San	247 8064	8905		
22 Mar (82) .	6 Fri	4 45 45	16 Mar (76)	0 Sat	282 4888	3903		
22 Mar (81)	0 Eat.	10 57 54	5 Mar (64)	4 Wed	158 2115	8907		
22 Mar (81)	1 San .	17 10 3	22 Feb (53) .	1 Sun	33 9844	3908		
22 Mar (81)	2 Mon	23 22 12	13 Mar (72) .	O Sat .	68 6168	3909		
22 Mar (82)	4 Wed	5 34 21	2 Mar (62)	5 Thur .	282 9716	8910		
22 Mar (81)	5 Thur	11 46 80	21 Mar (80)	4 Wed	317 6540	3911		
22 Mar (81)	6 Fri	17 58 39	10 Mar (69)	1 Sun	193 3769	3912		
28 Mar (82)	1 Sun	0 10 48	27 Feb (58)	5 Thur	69-0998	8913		
22 Mar (82) .	2 Mon	6 22 57	17 Mar (77) .	4 Wed	103 7821	8914		
22 Mar. (81)	3 Tues	12 35 6	7 Mar (66) .	2 Mon	318 1389	3915		
22 Mar (81)	4 Wed	18 47 15	24 Feb (55) .	6 I'm .	193 8598	5916		
23 Mur (82)	6 Fri	0 59 24	15 Mar (74) .	5 Thur	228 5421	3917		
,22 Mar (82) .	O Sat .	7 11 33	3 Mar (63)	2 Mon .	104 2650	8918		
22 Mar (81)	1 Sun .	13 23 42	22 Mar (81)	1 Sun	138 9474	3919		
22 Mar. (81)	2 Mon.	19 35 51	11 Mar (70) ·	5 Thur .	14 6703	3920		

Chaitra fakla 1 was suppressed

TABLE

				CONCU	RRENT YE	AR		
		krama.	solar year ın			JOVIAN SA	ANASTAVE	Mean intercolated (adhika) lunar
Kalı	Saka	Chatridı Vıkrama	Māshūdī solo Bengal	Kollam	A D	Southern system	Northern system	month
1	2	3	3a	4	5	6	7	8a
3021	742	877	226		819-20	33 Pik		9 Mārgasīra
3922	743	878	227		*820 21	34 Śā:	•	1
3923	744	879	228		821-22	35 Pla		
3924 3925	745	880	229		822-23		bhakrıt.	6 Bhādrapada‡
8926	746	881	230	1	823 24	37 Śñi		
3927	747	882 883	231	0-1	*824 25	38 Kr		
3928	749	884	232	1 1	825 26		ívāvasu .	2 Varsākha
3929	750	885	1 -00		826-27 827-28		rābhaya .	•
8930	751	886	-5.	1	*828-29		wanga	11 Māgha
8931	752	887	-0.	1	829-30	42 Kī	·	
8932	753	1			830 31	43 Sa	umya	
8933	754	889	23	8 6-7	831-32		rödhakrit	7 Āśvina
3934	755	89	0 23	9 7-8	*832-33		ridhär m	
3985	756	89	1 24	0 89	833 34		amādın '	4 Āshādha
3936	757	89	2 24	9 10	834 35	48 År	•	Ampine E
8987	1	89	3 24	10 11	835 36		ākshasa	12 Phālguna
8988		1	i	13 11-12	*836 37	50 A		12 I Haiguna
8939	1	1	,	14 12-13	837-38		ıngala	
894(		- 1		13 14	838 39	52 K	ālay ukta	. 9 Mārgasıra
394 394		í		45 14-15	839 40	<b>53</b> S:	ddhārthin .	•
894 894				47 15-16	*840 41	54 R	audra	1
394	1			18 16-17	1	55 D	urmatı	5 Srāvana
394		l l	1	19 17-18 50 18 19	1	56 D	andabhi .	
		1.	-   2	18 19	843-44	57 R	udhirödg i-in	

‡ See " Pemarks," p 215 above.

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		СОМ	ME	NCE	MENT OF THE			
Meav	SOIAR YEAR				MEAN LUMI SOLAB CIVIL DAY OV WHI			
Day and month,	Week-day	mea	lime in M mkrä	ēsha-	Day and month, A.D	Week-day	a (here=t, the index of the tithi)	Kalı.
13	14	-	17		19	20	23	1
23 Mar (82)	4 N ed.	H	M 48	5 0	1 Mar (60)	3 Tues	229 0250	3921
22 Mar (82)	5 Thur	8	0	9	19 Mar (79)	2 Mon	263 7074	8922
22 Mar (81)	6 Fri	14	12	18	8 Mar (67)	6 Fri	139 4313	8923
22 Mar (81)	0 Sat	20	24	27	25 Feb (56)	3 Tues	15 1531	8924
23 Mar (82)	2 Mon	2	36	36	16 Mar (75)	2 Mon	49 8855	3925
22 Mar (82)	3 Tues	8	48	45	5 Mar (65)	0 Sat	264 1904	8926
22 Mar (81)	4 Wed	15	0	54	22 Feb (53)	4 Wed	139 9182	8927
22 Mar (81) .	5 Thur	21	18	3	13 Mar (72)	3 Tues	174 5955	8928
23 Mar (82)	0 Lat.	3	25	12	2 Mar (61) .	0 Sat.	50 3184	8929
22 Mar (82)	1 Sun	9	87	21	20 Mar (80)	6 Frı	85 0009	3930
22 Mar (81)	2 Mon	15	49	30	10 Mar (69)	4 Wed	299 3556	3931
22 Mar (81)	3 Tues .	22	1	39	27 Feb (58)	1 San	175 0784	3932
23 Mar (82)	5 Thur	4	13	48	18 Mar (77)	0 Sat.	209 7609	3933
22 Mar (82)	6 Fri	16	25	57	6 Mar (66)	4 Wed	85 4837	8934
22 Mar (81)	0 Sat	16	38	6	24 Feb (55)	2 Mon	299 8385	8935
22 Mar (81)	1 Sun.	22	50	15	14 Mar (78)	0 Sat.	9995 8889 §	3936
23 Mar (82)	3 Tues	5	2	24	4 Mar (63)	5 Thur	210 2438	3937
22 Mar (82)	4 Wed	11	14	33	22 Mar (82)	4 Wed.	244 9262	8988
22 Mar (81)	5 Thur	17	26	42	11 Mar (70)	1 Sun	120 6490	8638
22 Mar (81)	6 F11	23	38	51	28 Feb (59)	5 Thur	9996 3718 5	3940
23 Mar (82) .	1 Sun	5	51	0	19 Mar (78)	4 Wed	81 0542	3941
22 Mar (82)	2 Mon	12	3	9	8 Mar (68)	2 Mon	245 4090	3942
22 Mar (81)	3 Tues	18	15	18	25 Feb (56)	6 Fri	121 1819	3943
28 Mar (82) .	5 Thur .	0	27	27	16 Mar (75)	5 Thur	155 8143	3944
28 Mar (82) .	6 Fri	6	89	86	5 Mar (61)	2 Mon	91 5372	3915

[§] Chauca fukla I was suppressed.

TABLE

				cc	NCUR	RENT 1E					
Kalı	Śaka	Vıkrama.	solar year ın	Kolls	um	AD -	Jovian San	MVATSARA		A ^r ean intercalated (adhika) lunar month	
		Chattrādı Vıkrams.	Chartrada Meshada Bengal				Sonthern system	Northe- system			
1	2	3	3a	4	_ _	5	6	7		8a	
8946	767	902	251	19	20	*844-45	58 Raktāksha .			2 Vaišākha	
8947	768	908	252	20	-21	845-46	59 Krōdhana				
8948	769	904	253	21	-22	846-47	60 Kshaya			10 Pausha	
8949	770	905	254	22	2-28	847-48	1 Pca	lbha <b>v</b> a		•	
3950	771	906	25	5 29	3 24	*848-49	2 Vıb	hava		•••	
8951	772	907	250	3 24	4 25	849-50	3 Śukla .			7 Asuma	
8952	778	908	25	7 2	5-26	850 51	4 Pramoda			•	
8958	774	909	23	8 2	6 27	851-52	5 Prajāpatı .				
8954	775	91	0 25	9 2	7-28	*852-53	6 An	_		3 Jyeshtha	
3955	776		1 26	0 2	8 29	858-54	7 Śrī	imukha		••	
8956	777	1	2 26	1 2	9 30	854-55	8 Bh	ava .		12 Phälgona	
8957	778	1	~   <b>~</b> `	32 8	30-31	855-56	9 Yr	ıvan .			
8959	1	1			31-32	*856-57	10 D				
8959	1		- 1		82 33	857-58	11 16	vara	•	8 Kärttika	
8960	1	1	\ \ \ \		88-84	858-59		ahudhānya			
8961	1	1			34 85	859 60		ramātlun	•		
8962 8963	- 1	1	- 1	1	85-36	*860 61		ıkrama	•	5 Srāvana	
896	1	t	1	268	86 87	861-62		risha .			
898		- 1		269	87-38	862 68	ì	hitr <b>a</b> bhànu	•	••	
896		1	1	270 271	88-39 89-40	863 64	D.	nbhānu		2 Vaisākha	
896	- f		1	272	40-41	*864 65				•••	
896		1	1	278	41-42	865 66			•	10 Pausha	
886			925	274	42-43	866-67	Julya		•	• ••	
89		791	926	275	43-44	867 68 *868-69		earvajit .	•		
===	1		- 1		30.33	-909-08	22 8	arvadhārın	•	7 Asvins	

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ise of the LA 1 ends)	OLAR YE. 7 WHICH	LUI N	ME OIV				OLAR YEAR	HEAR SO	1
the index	onth,	Day and month,			ime n M nkrä	mea	Week-day.	onth,	Day and mo
28		1			17		14		18
245 8919		eb (	23	S 45	M 51	H 12	0 Sat.	•	2 Mar (82)
280 5743	1	far (	18	54	8	19	1 Son	• •	2 Mar (81)
156 2972	-   1	far (	2	8	16	1	8 Tues .		3 Mar (82)
190-9798	2	lar (	21	12	28	7	4 Wed	• •	3 Mar. (82)
66 7024	16	lar (	9	21	40	18	5 Thur.		2 Mar (82)
281 0572	4	ob (	27	80	52	19	6 Fn		2 Mar (81)
115 7897	8	ar (	18	89	4	2	1 Sun		B Mar. (82)
91 4624	0	ar (	7	48	16	8	2 Mon		B Mar (82)
67 1853	4	ob (	24	57	28	14	3 Tues.	.	2 Mar. (82)
01 8677	8	ar (	14	6	41	20	4 Wed		2 Mar (81)
16 2225	. 1	ar (	4	15	58	2	6 Fra		8 Mar (82)
12 2729	6	ar (1	22	24	5	9	O Sat.		B Mar (82)
26 6278	4	ar (	11	88	17	15	1 Sun	.	2 Mar (82)
02 8506	1	ab (	28	42	29	21	2 Mon	i	2 Mar (81)
87 0329	0	ar (	19	51	41	8	4 Wed	1	3 Mar (82)
12 7558	4	ar. (6	8	0	54	9	5 Thur	. 1	8 Mar. (82)
27 1107	2	b (f	28	9	в	16	6 Fri.	. 1	2 Mar. (82)
31-7930	1	ar (7	16	18	18	22	0 Sat.		2 Mar (81)
7 5159	5	ar (6	5 ]	27	30	4	2 Mon		3 Mar (82)
8-2387	2	b (5	22 1	86	42	10	З Тпез	)	B Mar (82)
7 9211	1	ar (7	12 1	45	54	18	4 Wod,	.]	2 Mar (82)
2-2759	. 6	ir. (6	2 1	54	6	23	5 Thur		2 Mar (81)
8-9584	5	ir (8	21 1	8	19	5	0 Sat.		3 Mar (82)
2 6812	2	ir (6	10 1	12	81	11	1 Sun		8 Mar (82)
3 4039	6	b (5	27 H	21	48	17	2 Mon	1	2 Mar (82)

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						CC	NCU	RRE	ENT YI	EAR			-	
			reme	want in	solar year in						Joyian Sa	MTATSABA	- (ad	Mean iterculated hids) lunar
Kalı	Ś	ika	Chaitrada Vikrams	100	Mēshādi solu Benga	Koll	am	A D			outhern system	Northern system	_	month.
1	1	2	3	-	3a	1	4		5		6	7	_ _	8a
3971	1	792	92	7	276	4	4-45	1	869-70		23 Vırõdhın			
3972	1	793	92	8	277	1	15-46	1	870-71		24 V	•	1,	Jyështha .
3973		794	95	29	278	1	46-47	1	871-72		25 K		1.	b yeshena .
8974		795	}	80	27	1	47-48	1	872-73	1		andana .	12	Phälguna .
3975	1	79	1	81	28		48-49	1		1		រាវិទាវិទ	1	I margum
3976		79	1	82	28		49 5	- 1	874-75	1	29 J	aya Manmatha		
397		79	- 1	988		32	50-5		875-76	1	-	Darmakha	1.	8 Kärttika
397		78	1	984	1	88	51-5	1	*876-7	1		Hēmalamba .	- 1	
397		1	1	985	1	84	52-l	1	878 7	- {		Vilamba .	- 1	1
898		1	01   302	986	ţ	286	54	1	879-	- 1		Vikārin .	1	5 Śrāvana
39	31 382		803	93		287		-56	#880	1		Śārvarın .	1	
	988 988	1	804	98	1	288		-57	881-			Playa .	1	
-	984		805		40	289		-58	882	1		Śubhakrit	1	1 Chartra
8	398	5	808	9	41	290	5	3-59	888	84		Śōbliana	1	
:	398	8	807	8	942	291	5	9 60	*884	-85	38	Krōdhin	1	10 Pausha
	399	37	808	١,	943	292	6	0 61	888	5-86	39	71 Višvārasu	1	***
	39	88	809	}	944	293	1 6	61-62	88	87	4	0 Parābhava	1	111
	39	39	810		945	294	٠ [،	62 63	88	7-88	4	l Plavanga		6 Bhādrapada
	39	990	811		946	29	5	63 64	*88	8-89	4	2 Kīlaka		•••
		991	812	?	947	29	6	64-65	88	39-90	4	l3 Saumya .		
		992	813	1	948	29	- }	65 66	1	90 91	4	14 Sädhärana .		3 Jyështha
		3903 3904	81	ŧ	949	1	1	BR B	1	91-92	1	45 Virödhakrat		
		2002 2004	81	- 1	950 951	1	00	67-6		92-93	1	46 Pandhävin	•	11 Māgha
	_		1 "	1	301	1.	7	68-6	ים   פי	393 94		47 Pramëdin .		

XC-contd.

	C	OMMENCEM	ENT OF THE			
Mray	SOLAR TEAR.		MEAN LUNI SOLAR I			Kalı.
Day and month,	Week-day	Time of mean Méslia- samkränti	Day and month, A.D	Week day	a (here=t, the index of the tithi)	
13	14	17	19	20	23	1
00.35 (01)	0	H M S	17 Mar (76)	5 Thur	83 0864	3971
22 Mar (81) 23 Mar. (82)	3 Tues. 5 Thur.	6 7 39	7 Mar (66)	3 Tues .	297 4412	3971 3972
23 Mar (82)	6 Fri	12 19 48	24 Feb (55) .	O Sat	178 1641	3978
22 Mar. (82)	O Sat.	18 31 57	14 Mar (74)	6 Fri	207 8464	8974
23 Mar (82)	2 Mon	0 44 6	3 Mar. (62)	3 Tues	83 5693	8975
23 Mar (82) .	8 Tues	6 56 15	22 Mar (81)	2 Mon	118 2517	3976
23 Mar (82)	4 Wod	13 8 24	12 Mar (71) .	O Sat .	332 6065	8977
22 Mar (82)	5 Thur.	19 20 33	29 Feb (60) .	4 Wed .	208 3293	3978
23 Mar (82)	O Sat.	1 32 42	19 Mar (78) .	3 Tues	243 0118	8979
28 Mar (82) .	1 San	7 44 51	8 Mar (67) .	0 Sat	118 7846	3980
23 Mar (82)	2 Mon .	18 57 0	26 Fob (57) .	5 Thu .	388-0894	3981
22 Mar (82) .	3 Tues	20 9 9	15 Mar (75) .	3 Tues	29 1398	3982
23 Mar (82)	5 Thur .	2 21 18	5 Mar (64) .	1 Sun .	248 4947	8983
28 Mar (82)	6 Fm .	8 33 27	22 Feb (53) .	5 Thur	119 2175	3984
23 Mar (82)	O Sat	14 45 36	13 Mar. (72)	4 Wed.	158 8998	3985
22 Mar (82)	1 Sun	20 57 45	1 Mar (61) .	1 Sun	29 6227	3986
23 Mar (82) .	8 Tues .	3 9 54	20 Mar (79) .	0 Sat	64 3052	3387
23 Mar (82)	4 Wed	9 22 3	10 Mar (69)	5 Thur	278 6599	8988
23 Mar (82)	5 Thur .	15 34 12	27 Feb (58) .	2 Mon	154 3828	8989
22 Mar (82)	6 Fri	21 46 21	17 Mar (77)	1 Sun .	189.0652	8990
23 Mar. (82)	1 Sun .	3 58 80	6 Mar (65)	5 Thur	64 7881	3991
23 Mar. (82)	2 Mon .	10 10 89	24 Feb (55) .	3 Tues	279 1428	8992
28 Mar. (82) .	8 Tues .	16 22 48	15 Mar (74)	2 Mon ·	318 8252	3993
22 Mar. (82) .	4 Wed	22 34 57	8 Mar. (68) .	6 Fri	189 5481	8994
23 Mar. (82) .	6 Fri	4 47 6	22 Mar. (81)	5 Thur	224 2304	3995

				CONCUI	RENT 11	AR		
		ikrama.	solar year ın			Jovan Sa	MV ATRAILA.	Yean intercalated - (addiska) lunar
Kalı	Śaka.	Chaitrādi Vikrama.	Mëshādı sol Bongal	Kollam	AD	Southern system	Northern system	mon*!
1	2	3	3a	4	5	G	7	80
8996	817	952	801	69 70	894-95	48 Ans	ında .	
8997	818	953	802	70 71	895 96	49 Rāl	shasa .	. 8 Kärttika
8998	819	954	803	71-72	*896-97	50 Ans	da	
3999	820	955	804	72-73	897-98	51 P _{in}	gala	
4000	821	956	805	78 74	898-99	52 Ka	layukta .	. 5 Starana
4001	822	957	806	74-75	899-900	53 Sid	dhärthm	•••
4002	823	958	807	75 76	*900 01	51 Ra	udra	
4008	824	959	308	76-77	901 02	55 Du	rmatı .	1 Chaitra
4004	825	960	809	77-78	902 03	56 Da	ndubhi .	
4005	828	981	810	78-79	903-04	57 Ru	dhırödgürin† .	. 10 Pausha
4006	827	962	811	79 80	<b>*904-05</b>	58 Raktāksha	59 Krödhana	
4007	828	968	312	80 81	905 06	59 Krödhana	60 Kshaya .	
4008	829	964	818	81-82	906-07	60 Kshaya	1 Prabhava	6 Bhādrapada
4009	830	1	814	82-83	907 08	1 Prabhaya	2 Vibhara	
4010	1		"	83 84	*908-09	2 Vibliasa	8 Śukla	
4011			1	84 85	909-10	8 Śukla	4 Pramoda	3 Jyështha
4012			1	85-86	910 11	4 Pramoda	5 Prajāpati	Jonetta
4018			1	86-87	911-12	5 Prajāpatı	6 Auguras	11 Māgha
4014	. 1			1	*912-13	6 Angiras	7 Śrīmukha	
4018				1	918 14	7 Śrīmukha	8 Bhāya	
401					914-15	8 Bhāva	9 Yuvan	. 8 Kārttika
401	1				915-16		10 Dhātrı	
401					*916-17		11 Iśvara	
402	1 -			24 92-93	917-18		12 Bahudhānya	4 Ashādha
	1 04	97	8	25 93 94	918-19	12 Bahudhānya	13 Pramäthin	

† 58 Raktāksha was suppressed in the north By southern reckoning there was no suppression, and there has been none since. By Brahma-Siddhāsta "true" reckoning K Y 4006, A D. 904 05, was 58 Raktāksha, 59 Krōdhana

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Ī			ENT OF THE	COMMENCE		
Kalı	UNDISE OF TH UKLA 1 ENDS)	YBAR (MBAN 81 MON CHAITRA É	MPAN LUNI SOLAR OIVIL DAL ON WHI		SOLAR YEAR	Mean
	a (here=t, the index of the tithi)	Week-day	Day and month, A.D	Time of mean Mēslia- samkrānti	Week-day	Day and month, A D
1	23	20	19	17	14	13
3996 3997 3998 3999 1000 4001 4002 4003 4004 4005 4006 4007 4008 4009 4010 4011	99 9533 314 3081 10 3584 224 7133 100 4362 135 1186 10 8415 225 4963 259 8786 135 6015 170 2839 46 0067 260 3616 295 0440 170 7668 46 4896	. 2 Mon 0 Sat. 5 Thur 3 Tues 0 Sat. 6 Frr 3 Tues 1 Sun 0 Sat. 4 Wed 3 Tues 0 Sat 5 Thur 4 Wed. 1 Sun 5 Thur	6 Mar (66)	H M S 10 59 15 17 11 24 23 23 33 5 35 42 11 47 51 18 0 0 0 12 9 6 24 18 12 36 27 18 48 36 1 0 45 7 12 54 13 25 3 19 37 12 1 49 21 8 1 30	0 Sat	23 Mar (82)
4012	81 1720	4 Wed.		14 13 39	6 Fri	23 Mar (82)
4018	295 5269	2 Mon	4 Mar (63)	20 25 48	O Sat.	
4014	330 2092	1 Sun .	22 Mar (82)	2 37 57	2 Mon	23 Mar (83)
4015	205 9321	5 Thur	1	8 50 6	3 Tues	23 Mar (82)
4016	81 6549	2 Mon	28 Feb (59) .	15 2 15	4 Wed	23 Mar (82)
4017	116 9373	4	1	21 14 24	5 Thur	23 Mar (82)
4018	330 6921		8 Mar (68) . 6	3 26 33	0 Sat	23 Mar (83)
4019	206 4150		25 Feb (56)	9 38 42	1 Sun	23 Mar (82)
40%	241-0974	2 Mon	6 Mar (75)	15 50 51	2 Mon	23 Mar (82)

				CONCU	RRENT YE	AR.		
W-1	61.	ıkrama.	ar year ın			Jovian Sar	u atsaba.	Mean intercalated (addida) lunar
Kalı	Śaka	Chattrādı Vikrama.	Mëshëdi solar y Bengal	Kollam	A.D.	Southern 83 s*cm	Northern system	month
1	2	3	3a	4	5	6	7	-
402 <u>1</u> 402 <b>2</b>	842 843	977 978	826 827	94-95 95-98	919-20 *920 21	13 Pramāthin .	14 Vikrama 15 Vrisha	1 Chartra
4028	844	979	828	96-97	921-22	15 Vrisha	16 Chitrabhāna	1 Chartra
4024	845	980	829	97-98	922-28	16 Chitrabhānu	17 Subhānu	. 9 Märgasira
4025	846	981	880	98-99	928-24	17 Subhānu	18 Tarans .	
4026 4027	847	982	881	99-100	*924-25	18 Tārana	19 Pärthiva	
4028	849	983	832 833	100-01	925-26	19 Pārthīva	20 Vyaya	6 Bhadrapada
4029	850	985	834	101-02	926-27 927-28	20 Vyaya	21 Sarvajit	
4930	851	986	885	103-04	*928 29	21 Sarvajit	22 Sarvadhārin	
4081	852	987	886	104-05	929-30	22 Sarvadhārin 23 Virōdhin	23 Virôdhin	2 Vaisālha
4082	858	988	837	105-06	930-31	24 Vikrita .	24 Vikrita 25 Khara	
4088	854	989	888	108-07	931-32	25 Khara	26 Nandana	. 11 Māgha
4084	855	990	839	107-08	*932 33	28 Nandana	27 Vijaya	"
4036	856	991	840	108-09	938484	27 Vijaya	28 Jaya	7 Aśvina
4037	858	992	841	109-10	934-35	28 Jaya	29 Manmatha	
4038	859	984	842	110 11	935-88	29 Manmatha	30 Durmulha	
4080	860	995	844	112-18	*988-87 937-38	80 Durmukha-	31. Hēmalamba	4 Āshādha
4040	861	996	845	118-14	938-39	31 Hēmalamba 32 Vilamba	82 Vilamba.	
4941	862	997	846	114-16	989-40	88 Vikārin	38 Vikārin	H
404£	868	998	347	118:16	*940-41	84 Sarvaria	34 Śārvarın 35 Plava	1 Chartra.
4044	864	1000	848		941-42	85 Plava	36 Subhakrit	9 Märgasira
4046	866	1000	1		-	36 Subbakent	87 Śōbhana	. DERGERIE .
-			- 000	118-19	948-44	87 Sobbana	38 Krödhin .	

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	Mean luni-solar tear (hean sunrise of the civil day on which Craitea Surla 1 ends).						LLH YMAR	Mean ec	Mu
1	a (hero-t, the index of the tithi)	Week-day.	Day and month, A.D	slin-	ime e n Mi nLrās	mes	Week-day	nth,	Day and month,
1	23	20	19		17	1	14		13
				s	M	н			
40	116 8202	6 Fri	5 Mar (64)	0	3	22	3 Tacs .		23 Mar (82)
40	831 1750	4 Wed	23 Feb (54)	9	15	4	5 Thur	•	23 Ma- (83)
40	27 2254	2 Mon	12 Mar. (71)	18	27	10	6 Fn		23 Mar (82)
40	241.5802	0 Sat.	2 Mar (61)	27	39	16	O Sat .		23 Mar (92)
40	276 2626	6 Fri	1 Mar (80) .	36	51	22	1 Sun	1	23 Mar (82)
40.	151-9855	3 Tues.	9 Mar (69)	45	3	5	3 Tacs	1	23 Mar (83)
40	27 7084	0 Sat.	28 Feb (57)	54	15	11	Wed.		23 Mar. (82) .
40	62 8907	6 F-1	7 Mar (76)	3	23	17	5 Thur.		23 Mar (82) .
40	276 7455	4 W 3d.	7 Mar. (66)	12	40	23	8 Fri	1	23 Mar (82)
40	152 4684	1 San .	4 Feb (55)	21	Б2	5	l Sun		23 Mar (83) .
40	187 1507	0 Sat.	4 Mar. (73)	30	4	12	2 Mon		23 Mar (82) .
40	62 8736	4 Wed	8 Mar (62)	89	16	18	3 Tues		23 Mar (82)
40	97 5560	3 Tues.	2 Mar. (81) .	48	23	0	5 Thur		24 Mar. (83) .
403	811-9109	1 Sun .	1 Mar. (71)	57	40	8	8 Fri	1	23 Mar. (83)
40:	187 8886	5 Thur	28 Feb. (59)	6	53	12	0 Sat.		23 Mar (82) .
40	222 3161	4 Wed.	9 Mar (78)	15	5	19	1 San		23 Mar. (82) .
408	98 0389	1 Sun	8 Mar. (67) .	24	17	1	3 Tues		24 Mar (83) .
408	812 3938	6 Fri .	28 Feb. (57)	38	29	7	4 Wed.		23 Mar (83) .
403	8 4441	4 Wod	5 Mar. (74)	42	41	13	5 Thur.		23 Mar (82)
404	222-7990	2 Mon .	5 Mar (64) .	51	53	19	6 Fri.		23 Mar (82) .
404	98 5218	8 Fn.	22 Feb (58)	0	6	2	1 Sun		24 Mar (83) .
404	188 2042	5 Tbur	2 Mar. (72)	9	18	8	2 Mon .		23 Mar (83) .
404	8-9270	2 Mon	1 Mar. (60)	18	80	14	3 Tues		28 Mar (82)
404	48-6094	1 Sun.	% Mar. (79)	27	42	20	4 Wed		23 Mar. (82) .
404	257-9643	6 Fri	0 Mar. (69)	36	54	2	6 Fn.	, i	24 Mar (83) .

				CONC	JRRENT Y			
Kalı	Śala	'ıkrama	solar year ın	Kollam	A.D	JOVIAN SAN	IVATSARA	Mean intercalated (adhika) lunai month
Zgli	Dare	Chattrādı Vıkrama	Mčshūdi sol Bengal	Kolum	A.U	Southern system	Northern system	montu
1	2	3	3 a	4	5	6	7	8a
4046	867	1002	351	119 20	<b>*</b> 944-45	38 Krödhin	39 Viśvāvasu	6 Bhādrapada
4017	868	1003	352	120 21	945-46	39 Viśvāvasu	40 Parābhaya	
4048	869	1004	353	121-22	946-47	40 Parābhava	41 Plavanga	
4019	870	1005	354	122-23	947-48	41 Plavanga	42 Kīlaka	2 Vaišākha
4050	871	1006	855	123-24	<b>*948-4</b> 9	42 Kilaka	43 Saumya	
4051	872	1007	356	124-25	949 50	43 Saumya	44 Sādhārana	11 Māghh
4052	873	1003	357	125-26	950 51	44 Sädhärana	45 Virodhakrit	
4053	871	1009	858	126-27	951-52	45 Virödhakrit	46 Paridhāvin .	
4051	875	1010	359	127-28	*952-53	46 Paridhāvin	47 Pramādın	7 Āśvina
4055	876	1011	360	128-29	953-54	47 Pramādin	48 Ānanda	
4056	877	1012	"	129 30	954-55	48 Ananda	49 Rālshasa	
4057	878	1013	1 002	130 31	955-56	49 Rālshasa	50 Anala	4 Āshādha
4058	879	1	}	101-02	*956-57	50 Anala	51 Pingala	
1000	1 800	1	ļ	102-00	957-58	51 Pingala	52 Kālayukta	12 Phālguna
4061	032	1		100 04	958-59	52 Kālayukta	53 Siddhärthin	
4062	1 63.		1	-0100	959 60		54 Raudra	
1061	1	1	1		*960-61		55 Durmatı	9 Mārgasīra
416	1 "	1		1	961-62		56 Dundabhi .	
dir (	- 1	1	i	-0.03	962-63 963 64	- Danadom	57 Rudhırödgärin	
40,	3 85	- [	1	1	*964 65	1	58 Raktāksha	5 Srāvana
No.		9 102	3 37	Į.	965-66	1	59 Krödhana	
4/x*		105	1 37	3 111-42	1	·	60 Kshaya	
415"	~	1	1	4 142-43		)	1 Prabhava 2 Vibhava	2 Varsākha
4.7	0 6	1 10:	25 37	5 143.44	*968-69		3 Sukla	10 Paucha

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	СОЛ	ME	VCE:	MEN	T OF THE			<del>T</del>
Mean :	OLAR YFAR,				Mean Luni sofar Civil day on whi	YFAR (MEAN 8	UNRISF OF THE SULLA 1 ENDS)	Kab.
Day and month, A.D	Week-day	me	fime in M imki	ēsha-	Day and month, A D	Weel day	a there := t, the index of the tithi)	
13	14	-	17		19	26	23	1
23 Mar (83) 23 Mar (82)	0 Sat.	H 9 15	N 6 18	S 45 54	27 Feb (58) 17 Mar (76)	3 Tue:	133 6871 168 3695	4016 4047
23 Mar (82)	2 Mon	21	31	3	6 Mar (65)	6 Fri	44 0923	4018
24 Mar (83) .	4 Wed	3	43	12	24 Feb (55)	4 Wod	258 4471	4049
23 Mar (83)	5 Thur	9	55	21	14 Mai (74)	3 Тпоз	293 1295	4050
23 Mar (82)	6 Fri	16	7	30	3 Mar (62)	0 Sat	168 8524	4051
23 Mar (82)	0 Sat	22	19	39	22 Mar (81)	6 Fr1	203 5348	4052
24 Mar (83)	2 Mon	4	31	48	11 Mar (70)	3 Tuos	79 2576	4053
23 Mar (83)	3 Tues	10	43	57	29 Feb (60)	1 San	293 6125	4054
23 Mar (82)	4 Wed	16	56	6	19 Mar (78)	0 Sat	328 2949	4055
23 Mar (82)	5 Thur	23	8	15	8 Mar (67)	4 Wod	201 0176	4056
24 Mar (83)	0 Sat	5	20	24	25 Feb (56)	1 Sun.	79 7 105	4057
23 Mar (83)	1 Sun	11	32	83	15 Mar (75)	0 Sat	114 4229	4058
23 Mar (82)	2 Mon	17	44	42	5 Mar (64)	5 Thur	328 7778	4059
23 Mar (82) .	3 Tues	23	56	51	23 Mar (82)	1 Sun	24 8281	4060
24 Mar (83)	5 Thur	6	9	0	13 Mar (72)	1 Sun .	239 1830	4061
23 Mar (83)	6 Fri	12	21	9	1 Mar (61) .	5 Thur	114 9058	4062
23 Mar (82)	0 Sat	18	33	18	20 Mar (79)	4 Wod	149 5881	4063
24 Mar (83)	2 Mon	0	45	27	9 Mar (68)	1 Sun	25 3110	4064
24 Mar (83)	3 Tues	6	57	36	27 Feb (58)	6 Fr	239 6659	4065
23 Mar (83) .	4 Wed	13	9	45	17 Mar (77)	5 Thur	274 3433	4066
23 Mar (62) .	5 Thur	19	21	54	6 Mar (65)	2 Mon.	150.0710	4067
24 Mar. (83)	0 Sat	1	34	3	23 Fob (54)	6 Fra	25-7939	4068
24 Mar (83)	1 Sun	7	46	12		5 Thur	60 4763	4069
23 Mer (83)	2 Mon.	13	б8	21	3 Mar (63)	3 Tues	274 8311	4070

TABLE

Southorn   System   Southorn   System   Southorn   System   Southorn   System   System   System   Southorn   System   System   System   Southorn   System   System   Southorn   System   System   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Southorn   System   Sistem   Sistem   Sistem   System   Southorn   System   Sistem   Sistem   System   System   Sistem   System   Sistem   System   System   Sistem   System   System   Sistem   System   Sistem   System   Sistem   System   System   Sistem   System   System   Sistem   System   System   System   Sistem   System   System   Sistem   System   System   System   System   Sistem   System   System   System   Sistem   System   System   Sistem   System   System   System   Sistem   System   System   Sistem   System   Sistem   System   Sistem	3								
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908   1038   387   155-56   *980-81   14 Vikrama   15 Vrisha   16 Chitrabhānu   17 Subhānu   17 Subhānu   18 Tāraņa   18 Tāraņa   1907   1042   391   159-60   *984-85   18 Tārana   19 Pārthiva   19 Pārthiva   20 Vyaya   2 Vaišākha   10 Pausha   1	0.315		18 Pramathin	979 80	154-55	386	1037	902	4081
904 1039 388 156-57 981-82 15 Vrisha 16 Chitrabhānu 905 1040 389 157-58 982-83 16 Chitrabhānu 17 Subhānu 5 Srāvana 906 1041 390 158-59 983-84 17 Subhānu 18 Tāraņa 907 1042 391 159-60 *984-85 18 Tārana 19 Pārthīva 908 1043 392 160-61 985-86 19 Pārthīva 20 Vyaya 2 Vaišākha 909 1044 393 161-62 986 87 20 Vyaya 21 Sarvajīt 22 Sarvadhārīn 910 1045 394 162-63 987-88 21 Sarvajīt 22 Sarvadhārīn 10 Pausha 911 1046 395 163-64 *988-89 22 Sarvadhārīn 23 Virōdhīn 912 1047 396 164 65 986-90 23 Virōdhīn 24 Vikrīta † 913 1048 397 165-66 990 91 24 Vikrīta 26 Nandana 7 Āsvīna	a markarita		14 Vikrama	*980-81	155-56	387	1038	908	4082
905   1040   389   157-58   982-83   16 Chitrabhānu   17 Subhānu   5 Srāvana   906   1041   390   158-59   983-84   17 Subhānu   18 Tāraņa   19 Pārthīva   20 Vyaya   2 Vaišākha   908   1043   392   160-61   985-86   19 Pārthīva   20 Vyaya   2 Vaišākha   910   1045   394   162-68   987-88   21 Sarvajīt   22 Sarvadhārīn   10 Pausha   912   1047   396   164-65   988-90   23 Virōdhīn   24 Vikrīta †   26 Nandana   7 Asvīna   914   1049   398   166-67   991-92   25 Khara   27 Vaisana   7 Asvīna   27 Vaisana   28 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   27 Vaisana   28 Vaisana   27 Vaisana   28 Vaisana   27 Vaisana   28 Vaisana   27 Vaisana   27 Vaisana   28 Vaisana   27 Vaisana   28 Vaisana   27 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28 Vaisana   28	•		15 Vrisha	981-82	156-57	888	1039		4083
906 1041 390 158-59 983-84 17 Subhānu . 18 Tāraņa . 19 Pārthīva 907 1042 391 159-60 *984-85 18 Tārana . 19 Pārthīva 908 1043 392 160-61 985-86 19 Pārthīva 909 1044 393 161-62 986 87 20 Vyaya 21 Sarvajīt 910 1045 394 162-68 987-88 21 Sarvajīt 22 Sarvadhārīn 911 1046 395 163-64 *988-89 22 Sarvadhārīn 23 Virōdhīn 912 1047 396 164 65 98£-90 23 Virōdhīn 913 1048 397 165-66 990 91 24 Vikrīta 914 1049 398 166 67 991 92 25 Khara 927 Vicena	5 Submana		16 Chitrabhanu	982-83	157-58	889	1040		4084
907   1042   391   159-60   *984-85   18 Tārana   19 Pārthīva   20 Vyaya   2 Vaišākha   909   1044   393   161-62   986 87   20 Vyaya   21 Sarvajīt   22 Sarvadhārīn   10 Pausha   10 Pausha   10 Pausha   10 Pausha   10 Pausha   10 Pausha   10 Pausha   1048   395   163-64   *988-89   22 Sarvadhārīn   23 Virōdhīn   24 Vikrīta †   26 Nandana   7 Asvīna   10 Pausha   1049   398   166 67   991 92   25 Khara   27 Vicana   27 Vicana   27 Vicana   27 Vicana   27 Vicana   28 Virōdīna   28 Virōdīna   29 Virōdīna   29 Virōdīna   29 Virōdīna   29 Virōdīna   20 Virōdīna   20 Vyaya   20 Vyaya   20 Vyaya   20 Vyaya   21 Sarvajīt   22 Sarvadhārīn   10 Pausha   10 Pausha   1048   397   165-66   990 91   24 Vikrīta   26 Nandana   7 Asvīna   27 Vicana   27 Vicana   27 Vicana   27 Vicana   28 Virōdīna   27 Vicana   28 Virōdīna   27 Vicana   27 Vicana   28 Virōdīna   27 Vicana   28 Virōdīna   27 Vicana   27 Vicana   28 Virōdīna   27 Vicana   27 Vicana   28 Virōdīna   navana		17 Subhānu	983-84	158-59	1		}	4085	
908       1043       392       160-61       985-86       19 Pārthiva       20 Vyaya       2 Vaisākha         909       1044       393       161-62       986 87       20 Vyaya       21 Sarvajit       21 Sarvajit       22 Sarvadhārin       10 Pausha         911       1046       395       163-64       4988-89       22 Sarvadhārin       23 Virōdhin       23 Virōdhin       24 Vikrita †       24 Vikrita †       26 Nandana       7 Asvina         914       1049       398       166 67       991 92       25 Khara       27 Vicesar       27 Vicesar	-		18 Tārana	*984-85	1	1	{		4086
910 1045 394 162-68 987-88 21 Sarvajit 22 Sarvadhārin 10 Pausha 911 1046 395 163-64 988-89 22 Sarvadhārin 23 Virōdhin 912 1047 396 164-65 988-90 23 Virōdhin 24 Vikrita † 914 1049 398 166-67 991-92 25 Khara 27 Vicana 27 Vicana		1	19 Pārthīva	985-86	1			1	4087 4088
911 1046 395 163-64 *988-89 21 Sarvajit 22 Sarvadhārin 10 Pausha 912 1047 396 164 65 98£-90 23 Virōdhin 24 Vikrita † 914 1049 398 166 67 991 92 25 Khara 27 Vicana 7 Asvina			20 Vyaya		1	1		1	4089
912 1047 396 164 65 988-89 22 Sarvadhārm 23 Virōdhin 24 Vikrita † 26 Nandana 7 Āsvina 27 Vicaria			1						4090
918 1048 397 165-66 990 91 24 Vikrita + 28 Nandana 7 Asvina 914 1049 398 166 67 991 92 25 Khara 27 Vicana		1	1	)	1	1	1		4091
914 1049 398 166 67 991 92 25 Khara 27 Mandana 7 Asvina		24 Vikrita †			1			1	4092
991 92 25 Khara 27 Vaccus		28 Nandana	1	1	1	1	1		4093
915   1050   200   700 0 -		27 Vyaya .	1	1	1	1		1	4034
916 1051 400 168-69 993-94 27 Vijaya . 29 Manmatha		28 Jaya		1		1	1	918	4005

mean reckoning in the north by the Brahma-Siddhanta system, whether calculated by "true" or

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	CO	MMENCEMEN	T OF THE			
Mrav	SOLAR YEAR.		Mean luni-solae civil day on wh	TEAR (MEAN S	UNRISE OF THE UKLA 1 ENDS)	Kal:
Day and montb, A D	Wook-day	Time of mean Mësha- samkränti	Day and month, A D	Week-day.	a (here = t, the index of the teths)	
13	14	17	19	20	23	1
23 Mar (82) .	3 Tues	H M S	22 Mar (81)	2 Mon	309 5185	4071
24 Mar (83)	5 Thur	2 22 39	11 Mar (70)	6 Fr	185 2364	4072
24 Mar (83)	6 Fr	8 84 48	28 Feb (59)	8 Tues	60 9598	4073
23 Mar (83)	0 Sat	14 46 57	18 Mar (78)	2 Mon	95 8416	4074
23 Mar (82)	1 Sun	20 59 6	8 Mar (67)	O Sat.	309 9984	4075
24 Mar. (83)	3 Tues.	3 11 15	25 Feb (56)	4 Wed.	185-7198	4076
24 Mar (83)	4 Wed	9 23 24	16 Mar (75)	3 Tues	220 4016	4077
23 Mar (88)	5 Thur	15 35 33	4 Mar '(64)	O Sat.	98 1245	4078
23 Mar (82)	6 Fr	21 47 42	23 Mar (82)	6 Fr: .	180 8069	4079
24 Mar (83)	1 Sun	3 59 51	12 Mar (71)	3 Tues .	6 5298	4080
24 Mar (83)	2 Mon	10 12 0	2 Mar (61)	1 Sun .	220 8845	4081
23 Mar (83)	8 Tues	16 24 9	20 Mar (80)	O Sat	255 5669	4082
23 Mar (82) .	4 Wed.	22 36 18	9 Mar. (68)	4 Wed	191 2898	4088
24 Mar (83)	6 Fri	4 48 27	28 Feb (57)	1 Sun.	7 0127	4034
24 Mar_(83) .	0 Sat.	11 0 36 1	17 Mar (76)	0 Sat.	41 8950	4085
23 Mar (83)	1 Sun.	17 12 45		5 Thur	256 0499	4086
23 Mar. (82)	2 Mon		33 Feb (54)	Mon .	181-7727	4087
24 Mar (83)	4 Wed	5 87 3 1	4 Mar (78)	Sun.	166 4550	4088
24 Mar (83) .	i i	1		Thur .	42 1779	4089
23 Mar (83)				Wod .	76 8603	4090
24 Mar (83) .	1 Sun	<b>}</b>			291 2152	4091
24 Mar (83)	2 Mon.				66 9898	4092
24 Mar (83) .					01-6204	4093
23 Mar (83)					77 8482	4004
24 Mar (83)	6 Fm	1 2 6 2	5 Feb (56) . 0	Sat 2	91-6980	4095

TABLE

				CONC	URRENT 1	EAR		
Kalı.	Saka	Chastrādı Vikrama.	Mëshādı solar year in Bengal	Kollam	JOVIAN SAN  Routhern  system		Northern system	Nonn interculate I (adhika) lunai month
1	2	3	3a	4	5	6	7	- <u>8a</u>
4096 4097 4098 4099	917 918 919 920	1052 1053 1054 1055	401 402 403 404	169-70 170 71 171-72 172-73	994-95 995 96 *996-97 997-98	28 Jaya 29 Manmatha 30 Durmukha 31 Hēmalamba	30 Durmuk ha 31 Hāmalamba 32 Vilamba 33 Vikārin	 12 Paälguna
4100 4101	921 922	1056 1057	405 406	178 74 174 75	996-99	32 Vilamba 33 Vikārin	34 Śārvarın 35 Plava	8 Kārttika
4102 4103 4104	923 924 925	1058 1059 1060	407 408 409	175-76 - 176 77 177-78	*1000 01 1001-02 1002-03	34 Śārvarın 35 Plava 36 Śubhakrit	36 Śubhakrit 37 Śöbhana 38 Krödhin	5 Śrāvana
4105 4106	926 927	1061 1062	410 411	178-79 179 80	1003 04 *1004-05	37 Śōbhana 38 Krōdhin	39 Vistātasu	
4107 4108	928 929	1063 1064	412	180 81 181-82	1005-06	39 Visvāvasu 40 Parābhava	40 Parābhava 41 Plavanga	1 Chaitra
<b>4109 4110</b>	980	1065 1066	414	182-83 183 84	1007-08	41 Plavanga 42 Kilaka	42 Kilaka 43 Saumya	10 Pausha
4111 4112	932	1067	416	184 85 185 86	1009-10	43 Saumya .	44 Sādhārana 45 Virōdhakrit	7 Āśvina†
4118 4114	934 935	1069 1070	418	186-87	1010-11	44 Sādhārana 45 Virōdhakrit	46 Paridhāvin 47 Pramādin	
4115 4116	988	1071	420	-00 00	*1012-18 1013-14	46 Paridhāvin 47 Pramādin	48 Ānanda 49 Rālshasa	. 3 Jyështha
4117	938	1078	422	}	1014-15 1015 16	48 Ānanda 49 Rākshasa	50 Anala 51 Pingala	12 Phälguna
4119	940	1075	424	192-93	1		52 Kālayukta 53 Siddhārthin	8 Kärttika
==		1-0.0	1 225	193-94	1018 19	52 Kālay ukta	54 Randra .	

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	C	OMN	ENG	CEN:	ENT OF THE			
Mean	SOLAR YEAR				Mean Luni-solar Civil day on whi	YEAR (MBAN S CCL CHAILBA S	UNRISE OF THE UKLA 1 FNUS)	Kalı
Day and month, A D	Wook-day.	mer	lime in M mkri	ēsha-	Day and month, A D	Week-day	a (bore = t, the index of the tithe)	
13	14	-	17		19	20	23	1
24 Mar (83)	0 Sat	H 7	M 14	S 15	16 Mar (75)	6 Fri	326 3804	4096
24 Mar (83)	1 Sun	13	26	24	5 Mar (64)	3 Tues	202 1038	4097
23 Mar (83)	2 Mon	19	38	33	23 Mar (83)	2 Mon	236 7856	4099
24 Mar (83)	4 Wed	1	50	42	12 Mar (71)	6 Fri	112 5085	4099
24 Mar (83)	5 Thur	В	2	51	2 Mar (61)	4 Wed	326 8633	4100
24 Mar (83)	6 Fr	14	15	0	20 Mar (79)	2 Mon.	22 9136	4101
23 Mar (83)	0 Sat	20	27	9	9 Mar (69)	O Sat .	237 2685	4102
24 Mar (83)	2 Mon	2	39	18	26 Fob (57)	4 Wed	112 9914	4103
24 Mar (68)	3 Tues	8	51	27	17 Mar (76)	3 Tuos	147 6737	4104
24 Mar (83) .	4 Wed.	15	3	86	6 Mar (65)	0 Sat	23 3966	4105
23 Mar (83)	5 Thur	21	15	45	24 Feb (55)	5 Thur	237 7514	4106
24 Mar (83)	0 Sat.	3	27	54	14 Mar (78)	4 Wed	272 4338	4107
24 Mar (83)	1 Sun	9	40	3	3 Mar (62)	1 Sun	148 1566	4108
24 Mar (83)	2 Mon	15	<b>52</b>	12	22 Mar (81)	0 Sat	182 8390	4109
23 Mar (83)	3 Tues	22	4	21	10 Mar (70)	4 Wed	58 5618	4110
24 Mar (83)	5 Thur	4	16	30	28 Feb (59)	2 Mon .	272 9167	4111
24 Mar (83)	6 Fri	10	28	39	19 Mar (78)	1 Sun	307 5991	4112
24 Mar (83)	0 Sat	16	40	48	8 Mar (67)	5 Thur .	183 3219	4113
23 Mar (83)	1 Sun	22	52	57	25 Feb (56)	2 Mon .	59 0447	4114
24 Mar (83)	3 Tues	5	5	6	15 Mar (74)	1 Sun	93 7270	4115
24 Mar (83)	4 Wed	11	17	15	5 Mar (64)	6 Fri	808 0820	4116
24 Mar (83)	5 Thur	17	29	24	28 Mar (82)	4 Wed	4 1323	4117
23 Mar (93) .	6 hr.	23	41	33	12 Mar (72)	2 Mon	218 4872	4,15
24 Mar (83) .	1 Sun	5	53	42	1 Mar (60)	6 Fei	94 2100	4119
24 Mar (83)	2 Mon	12	5	51	20 Mar (79)	5 Thur	128 S ^q 24	4120

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4186 957 1092 441 209-10 1034-85 8 Bhāva 10 Dhātṛi .  4187 958 1093 442 210-11 1035-86 9 Yuvan 11 Iśvara .  4188 959 1094 443 211-12 *1036-87 10 Dhātṛi .  4189 960 1095 444 212-13 1037-88 11 Iśvara .  4140 961 1036 445 213-14 1038-39 12 Bahudhānya 14 Vikrama .  4141 962 1097 446 214-15 1039-40 18 Pramāthin 15 Vṛieḥa .  4142 968 1098 447 215-16 *1040-41 14 Vikrama .  4144 965 1100 449 217-18 1042-48 16 Chitrabhānu .  4145 966 1101 450 810-10		}		1	}		1	8 Bhāva	
A187   958   1093   442   210-11   1035-86   9 Yuvan   11 Isvara   12 Bahudhānya   8 Kārttika   13 Pramāthin   14 Vikrama   14 Vikrama   15 Vrisha   16 Chitrabhānu   17 Subhānu   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraņa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tāraṇa   18 Tā	4186	957		1		1		1	11 Mägha
Alas   959   1094   443   211-12   *1036-87   10 Dhāt;i   12 Bahudhānja   8 Kārttika     12 Bahudhānja   8 Kārttika     13 Pramāthin   14 Vikrama   14 Vikrama   15 V;isha     16 Chitrabhānu   16 Chitrabhānu   17 Subhānu     18 Tāraṇa     18 Tāraṇa     18 Tāraṇa     18 Tāraṇa     18 Chatrabhānu     18 Tāraṇa     18 Chatra     18 Tāraṇa	4187	958	}	1	1				. 1
## ## ## ## ## ## ## ## ## ## ## ## ##	<b>4188</b>	959	1094	443	ì	Ì	1		
At40       961       1036       445       218-14       1038-39       12 Bahudhānya       14 Vikrama         4141       962       1097       446       214-15       1039-40       18 Pramāthin       15 Vrisha       4 Āshādha         4142       963       1098       447       215-16       *1040-41       14 Vikrama       .       16 Chitrabhānu       4 Āshādha         4143       965       1100       449       216-17       1041-42       15 Vrisha       17 Subhānu       .         4145       966       1101       450       217-18       1042-48       16 Chitrabhānu       18 Tāraṇa       .       1 Chaire	<b>A</b> 189	960	109	444	1	į .	1	-	8 Kārttika
4142 963 1098 447 215-16 *1040-41 14 Vikrama 16 Chitrabhānu		1	103	3 445	218-14	1			
4145 966 1101 450 217-18 1040-41 14 Vikrama . 16 Chitrabhānu . 16 Chitrabhānu . 17 Subhānu . 18 Tāraṇa . 1 Chaitra		. 1			214-15	l .	l land		
4164 965 1100 449 217-18 1042-48 16 Chitrabhānu . 18 Tāraņa			1	1	215-16	*1040-41		1	4 Ashādha
4145 966 1101 450 217-18 1042-48 16 Chitrabhann . 18 Tarana 1 Chartra		1	1			1	1	1	
( " ( " " X X X X X X X X X X X X X X X			1			1			1 1
1043-44 17 Subhānu . 19 Pārthiya			1	7 45	218-19	1043-44	17 Subhānu		

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			MENT OF THE			
Mean	SOLAR YEAR		MIAN LUM SOLAR CIVIL DAY ON WHI	TEAB (MEAN S CH CHAITRA Ś	UNRISE OF THE UKLA 1 ENDS)	Kalı
Day and month, A D	Week-day	Time of mean Mösha- samkränti	Day and month,	Week day	a (here=f, the index of the tithi)	
13	14	17	19	20	23	1
24 Mar (83) 21 Mar (84)	3 Tues	H N S 18 18 0 0 30 9	9 Mar (68) , 27 Feb (58)	2 Mon	4 6131 218 9701	4121
21 Mar (83)	6 lm	6 42 18	17 Mar (76)	6 Fr	258 6525	4122
24 Mar (83)	0 Sat	12 51 27	6 Mar (65)	3 Tues	129 3753	4123 412 ₁
21 Mar (83)	1 Sun	19 6 36	23 Feb (54)	0 Sat	5 0981	4125
24 Mar (84)	3 Tues	1 18 45	18 Mar (78)	6 Fri	39 7806	4126
24 Mar (83)	4 Wed	7 30 54	3 Mar (62)	4 Wed	254 1354	4127
24 Mar (83)	5 Thur	13 43 3	22 Mar (81)	3 Tues	288 8177	4128
24 Mar (83)	6 Fri	19 55 12	11 Mar (70)	0 Sat	164 5406	4129
24 Mar (84)	1 Sun	2 7 21	28 Feb (59)	4 Wed	40 2635	4130
24 Mar (83)	2 Mon	8 19 80	18 Mar (77)	8 Tues	74 9458	4131
24 Mar (88)	3 Tues	14 81 89	8 Mar (67)	1 Sun	289 3006	4132
24 Mar (83)	4 Wed.	20 43 48	25 Feb (56)	5 Thur	165 0235	4133
24 Mar (84)	6 Fri	2 55 57	15 Mar (75)	4 Wed	199 7059	1134
24 Mar (83)	0 Sat	986	1	1 Sun	75 4287	4135
24 Mar (83)	1 Sun	15 20 15		0 Sat	110 1111	4136
24 Mar (88)	2 Mon	21 82 24	i	5 Thur	<b>324 4660</b>	4137
24 Mar (84)	4 Wod	3 44 33		2 Mon	200 1888	4138
24 Mar (83) 24 Mar (83)	5 Thur	9 56 42		1 Sun	234 8712	4139
24 Mar (88) .	6 Fri 0 Sat	16 8 51 22 21 0		5 Thur	110 5940	4140
24 Mar (84) .	2 Mon			B Tues	324 9489	4141
24 Mar (83)	3 Tues	4 33 9 10 45 18		l Sun	20 9992	4142
24 Mar (83)	4 V7ed			Tues	235 3541	4143
24 Mar (83)	5 Thur	, A		Mon .	145 7593	4144 4145

		ZAR	JRRENT Y	coxco				
Nean intercalated (adhika) lun	AUPETAVI	JOVIAN SAI			solar year m	runn		
month	No-thern system	Southern system	A.D	Co ¹ lam	Mehidi solar Bergal	Chaitradi Vikrama	ia <b>L</b> a	Kan
82	7	8	5	4	3 <i>a</i>	3	2	1
9 Mārgašīra	20 Vyaya	8 Tārana .	*1014 45	219 20	451	1102	967	4146
	21 Sarvajit	9 Pārthiva .	1015 16	220 21	452	1103	968	4147
	22 Sarradlığrın	0 Vyaya .	1046-47	221-22	453	1104	969	4148
6 Bhadrapad	23 Virödhin	l Sarrajit	1047-48	222-23	454	1105	970	4149
	21 Vikrita	2 Sarvadhārm .	*1048 49	223 24	455	1106	971	4150
	25 Khara .	23 Vi ödhin	1049 50	224-25	456	1107	972	4151
3 Jyêshtha	26 Nandana	24 Vikrita	1050-51	225 26	457	1103	973	4152
	27 Vijaya .	25 Khara	1051-52	226-27	458	1109	974	4153
11 Mägba	28 Jaya	26 Nandana	*1052 53	227-28	459	1110	975	4154
	29 Manmatha	27 Vijaya .	1053 54	228-29	460	1111	976	4155
	30 Durmukha	28 Jaya	1054-55	229 30	1	1112	977	4156
8 Kärttika	31 Hēmalamba	29 Manmatha	1055-56	230-31	1	1113	978	4157
•••	32 Vilamba	30 Darmukha	*1056-57	231-32		1114	979	4158
•	33 Vikārin .	31 Hēmalamba	1057-58	232-33		1115	980	4159 4160
4 Āshādha	34 Śārvarın	32 Vilamba	1058 59	233-34		1116	981	4161
	35 Plava	00 1144111	1059-60	234-35 235-36	1	1111	953	4162
1 Market	36 Śubhaknt	34 Sārvarın	*1060 61 1061-62	1	1	1	984	4163
1 Chaitra	37 Söbhana 38 Krödhin	35 Plava   36 Śubhakrit		1	1	1	1	4164
9 Mārgašīr	39 Visvāvasu	37 Sõbhana	1	1	1	1	986	416
	. 40 Parābhava	38 Krôdhin		1	22 471	7 119	98	416
1.	41 Plavanga	39 Vistātasu	1	240-41	23 475	3 11:	98	416
. 6 Bhādrap	42 Kīlaka	40 Parābhava	1066-67	241-49	24 47	9   11	1	418
	43 Saumya	41 Plavanga	1067-68	2 242-43	25 27	1		416
	44 Sadhārana	_	\$ 1063-AS	5 243-4	26 47	1 11	0   99	417

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	(	COMMENCEM	ENT OF THE			1
Mear	SOLAR YEAR		Mpan Luni solae : Civil day on whi	rear (Mean Si on Chaitra s	UNRISE OF THE UKLA 1 ENDS)	l
Day and month, A.D	Week-day	Time of mean Mēsha- samkrānti.	Day and month, A D.	Week-day.	a (here=t, the index of the tithi)	Kelı
13	14	17	19	20	23	1
24 Mar (84) 24 Mar (83) 24 Mar (83) .	O Sat. 1 Sun 2 Mon.	H M S 5 21 45 11 33 54 17 46 3	2 Mar (62) 21 Mar (80) 11 Mar (70)	6 Fri. 5 Thur 3 Tues	21 4821 56 1645 270 5194	4146 4147 4148
24 Mar (83)	3 Tues .	23 58 12	28 Feb (59) .	0 Sat.	146 2422	4149
24 Mar (84)	5 Thur	6 10 21	18 Mar (78)	6 Fri	180 9246	4150
24 Mar (83)	6 Fri	12 22 80	7 Mar (66) .	8 Taes .	56 6475	4151
24 Mar (83)	O Sat.	18 84 89	25 Feb (56) .	1 Sun .	271 0023	4158
25 Mar (84) .	2 Mon	0 46 48	16 Mar (75) .	O Sat.	305 6846	4158
24 Mar (84) .	3 Tues .	6 58 57	4 Mar (64)	4 Wed.	181 4075	4154
24 Mar (83) .	4 Wed	13 11 6	23 Mar (82)	3 Tues	216 0899	4155
24 Mar (83)	5 Thur .	19 23 15	12 Mar (71)	0 Sat.	91 8127	4156
25 Mar (84) .	O Sat.	1 85 24	2 Mar. (61) .	5 Thur .	306 1675	4157
24 Mar (84) .	1 Sun .	7 47 83	19 Mar (79) .	3 Tues .	2 2180	4158
24 Mar (83) .	2 Mon	13 59 42	9 Mar. (68)	1 Sun	216 5728	4159
24 Mar (83) .	3 Tues .	20 11 51	26 Feb. (57)	5 Thur	92 2956	4160
25 Mar (84) .	5 Thur	2 24 0	17 Mar (76) .	4 Wed	126 9780	4161
24 Mar (84) .	6 Fri .	8 36 9	5 Mar. (65)	1 Sun.	2 7009	4162
24 Mar (83) .	0 Sat.	14 48 18	23 Feb (54) .	6 Fri	217 0556	4163
24 Mar. (83) .	1 Sun .	21 0 27	14 Mar (78) .	5 Thur.	251-7380	4164
25 Mar (84) .	8 Tues.	8 19 86	8 Mar (62) .	2 Mon.	127 4809	4165
24 Mar (84) .	4 Wed	9 24 45	21 Mar (81)	1 San. •	162 1438	4166
24 Mar (88) .	5 Thur.	15 86 54	10 Mar. (69) .	5 Thur.	37 8661	4187
24 Mar (83) .	6 Fra	21 49 8	28 Feb (59) .	8 Tues.	252 2210	4168
25 Mar (84) .	1 Sun .	4 1 12	19 Mar. (78)	2 Mon.	286 9054	4169
24 Mar. (84) .	2 Mon	10 18 21	7 Mar. (67)	6 Fri.	162 6262	4170

				CONC	JRRENT 1	EAR		
		krama.	solar 3 car in			IOVIAN SAI	Araetay)	Mean interculated (adhila) lunar
Kal:	Śaka	Chattridi Vıkrama.	Mengal.	Kollam	A.D	Southern system	Northern sys [†] cm	month
1	2	3	3a	4	5	G	7	82
a171	992	1127	476	241-45	1059 70	43 Saumya	45 Virödhakpit	2 Vaisīkha
4172	993	1128	477	245-46	1070 71	44 Sādhārana .	46 Paridhātin .	•
4173	994	1129	478	246 47	1071-72	45 Virödhakjit	47 Pramēdin	11 Mägba .
4174	995	1130	479	247-48	*1072-73	46 Paridhāvin	48 Ananda .	
4175	996	1131	480	248-49	1073-74	47 Pramādin	49 Rākshasa	
4176	997	1132	481	249-50	1074-75	48 Ananda .	50 Anala†	7 Āśrīna .
4177	998	1133	482	250-51	1075-76	49 Rälshasa	52 Kâlayukta	
4178	999	1134	493	251-52	*1076-77	50 Anala	53 Siddhärthin	• 6
4179	1000	1135	484	252-53	1077-78	51 Pingala .	54 Randra .	4 Āshādha .
4160	1001	1136	485	253-54	1078-79	52 Kālayukta	55 Durmati .	•••
4181	1002	1137	436	254-55	1079 80	53 Siddhärthin	56 Dundubhr	12 Phālgana .
4182	1003	1138	487	255-56	*1090 81	54 Raudra	57 Rudhirödgärin	•••
4183	1004	1139	488	256-57	1031-82	55 Durmatı	58 Raktāksha	
4184	1005	1140	489	257-58	1032-83	56 Dundubhi	59 Krödhana	9 Mārgasīra .
4185	1008	1141	490	⁻ 238-59	1033-84	57 Rudhırödgärın	60 Kshaya	
4186	1007	1142	491	259 60	*1084 85	58 Raktāksha	1 Prabhava	1.0
4187	1003	1143	1	260 61	1085 86	59 Krodhana	2 Vibbava	6 Bhādrapada.
4188	1009	1144	1	281-62	1086-87	60 Kshaya	3 Śakla .	
4189 4190	1010	1			1087-88	1 Prabhava	4 Pramēda	. 48
4191	1	}		1	*1083-89	2 Vibhava	5 Prajāpati	2 Varšākha
4192	1	}		1	1089-90	3 Śukla .	6 Anguras	
4198	1	1	1	1	1090-91	1	7 Śrimukha	11 Māgha
4194		4	1	1	1091-92	1	8 Bhāva	***
419	1	1	. 1	1	1	8	9 Tuvan	
		1110	E 600	268-69	1093-94	7 Śrīmukha	10 Dhāt _f i	7 Aśvina

^{† 51} Pingela was suppressed in the north, according to both "true" and mean systems, in Brahma-Fuldhanta

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	C	OMS	ENC	EMI	ENT OF THE					
MPAN	BOLAR YEAR				Mean Luni-solad tear (mean sunrise of the oivil day on which Chaitea Sukla 1 ends)					
Day and month,	Week day	me	îme in Mi mkrã	leha-	Day and month,	Week-day.	a (here=t, the index of the tithi)	Kalı		
13	14	-	17		19	20	23	1		
24 Mar (83) 21 Mar. (83) 25 Mar (84) 24 Mar. (84) 24 Mar (83) 25 Mar (84) 25 Mar. (84) 26 Mar (84) 27 Mar (84) 28 Mar (84) 29 Mar. (84) 29 Mar. (84) 20 Mar. (84) 21 Mar. (84) 22 Mar. (84) 23 Mar. (84) 24 Mar. (84) 25 Mar. (84) 26 Mar. (84) 27 Mar. (84) 28 Mar. (84) 29 Mar. (84) 20 Mar. (84)	3 Tues 4 Wed. 6 Fri 0 Sat 1 Sun 2 Mon	H 16 22 4 11 17 23 5 11 18 0 6 12 18 1 7	M 25 87 49 1 14 26 38 50 2 14 27 39 51 3 15 27 89	\$ 30 39 48 57 6 15 24 33 42 51 0 18 27 36 45 54	24 Feb (55)  15 Mar. (71)  5 Mar (64)  23 Mar. (83)  12 Mar (71)  1 Mar (60)  20 Mar (79)  9 Mar (69)  28 Feb (57)  17 Mar (78)  6 Mar (65)  24 Mar (84)  13 Mar (72)  3 Mar. (62)  22 Mar. (81)  10 Mar (70)  27 Feb (58)	3 Tues 2 Mon 0 Sat 6 Fri 3 Tues 0 Sat 6 Fri 4 Wed 1 Sun 0 Sat 4 Wed 3 Tues 0 Sat 5 Thur 4 Wed 1 Sun 5 Thur	38 3490 73 0314 287 3863 322 0686 197 7915 73 5143 105 1967 322 5515 198 2744 232 9568 108 6796 143 3620 19 0848 233 4397 268 1220 143 8449 19 5678	4171 4172 4173 4174 4176 4177 4178 4180 4181 4182 4188 4184 4185 4186 4187		
25 Mar. (84) 25 Mar. (84)	4 Wed . 5 Thur 6 Fr	8	52 4	8 12 21	18 Mar (77) .  8 Mar (67) .  25 Feb (56) .	4 Wod 2 Mon 8 Fr:	54 2501 268 6050 144 3278	4188 4189 4190		
24 Mar. (84)	0 Sat . 2 Mon 3 Tues .	2 8	16 28 40 52	30 89 48	15 Mar (74) . 4 Mar. (68) . 23 Mar (82) .	5 Thur 2 Mon 1 Sun.	179 0102 54 7390 89 4154	4191 4192 4193		
24 Mar. (84)	4 Wed . 5 Thur	15 21	4 17	57 6	12 Mar (72)	6 Fr	203 7703 179·4930	<b>4194</b> <b>419</b> 5		

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					C	oncup	RENT Y	EAT	<b>?</b>				
		ama.		Sour in					Joyian Sam	۲۲.	ATSARA.		Mean iterculated thika) lunar
Kalı	Saka	Chartrade Vikrama.	1	Mčshūdı solar Bengal	Kol	lam	AD		Southern system		Northern system		month
1	2	3		3 <i>a</i>		4	5		6	_	7		80
4196	1017	11:	52	501	26	9-70	1094-95	8	Bhūva	1	1 Iśvara .		
4197	1018	11	1	502	27	0-71	1095-96	9	luvan .	1	2 Bahudhānya		
4198	1019		.54	503	27	1-72	*1096-97	10	Dhātri .	1	3 Pramáthin	4	Ashādha .
4199	1020	1	55	504	2	72-73	1097 98	11	Iśvara	1	4 Yıkrams		
4200	1021	1	156	505	2	73 74	1098-99	1;	2 Bahudhānya	) :	5 I risha .	12	Phälguna .
4201	1022	11	157	506	2	74-75	1099-1100	1:	3 Pramäthin	:	lG Chitrabhānu		
4202	1023	1	158	507	2	75-76	*1100 01	1	4 Vikrama		17 Subhānu		
4203	102	1	159	508	2	76 77	1101 02	1	5 Vrisha		18 Tārana		) Mārgasīra
4204	102	5   1	160	509	9 2	77-78	1102 03	1	6 Chitrabhānu		19 Pärthiva		
4205	102	6   1	1161	51	:   ٥	278-79	1103 04	1	17 Subhānu		20 Vyaya		
4206	102	7	1162	51	1	279 80	*1104 05		18 Târana		21 Sarvajit	1	ō Śrāvana
4207	7 10	28	1163	51	.2	280 81	1105 06	3	19 Pārthīva	1	22 Sarvadhärın	١	***
420	8 10	29	1164	5	13	281 82	1106 0	7	20 Vyaya	١	23 Virôdhin	1	• 1
420	9 10	30	1165	5 5	14	282-83	1107-0	8	21 Sarvazīt	į	24 Vikpita	1	2 Vaisākha
421		031	116	- 1	15	283 84	*1108 0	9	22 Sarvadbārin		25 Khara	1	••
42		032	116	1	516	284 85	1109 1	0	23 Virödhin		26 Nandana	١	10 Pausha
	- (	.033	116	- 1	517	285 86	1 -	- 1	24 Vikrita	٠	27 Vijaya	1	121
	1	1034	116	- 1	518	286-8	1	1	25 Khara		28 Jaya .	١	<b>-</b> 7.
	- 1	1035 1036	1	70   71	519	257-8	į		26 Nandana		29 Manmatha	1	7 Āśvina .
	216	1030 1037	1	72	520 521	288 8	1		27 Vijaya		30 Darmakha	1	8 1 1
	217	1038	- 1	1	. 522	1	- 1		28 Jaya 29 Manmatha		31 Hēmalamba 32 Vilamba	-	3 Jyēshtha
	1218	1039	1	174	523	1	1		30 Darmakha		33 Vikārin	1	o o jeantum
•	4219	1040	0 1	175	521		· ·		1		34 Śārvarın		12 Phälguna
	4220	104	1   1	176	525	293	1		1		35 Plava		"

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			ENT OF THE					
Желк	SOLAR TEAR		MEAN LUM SOLAR YEAR (MEAN SUMRISE OF THE FIGHT DAY ON WHICH CHAITEA SUKLA 1 ENDS)					
Day and month, A.D	Week-day	Time of mean Mesha- samkrant:	Day and month, A D.	Week-day	a (here=t, the index of the tithi)	Kali.		
13	14	17	19	20	28	1		
		н м в						
25 Mar (84)	O sat.	8 29 15	20 Mar (79)	2 Mon	214 1755	419		
25 Mer (81) .	1 Fan	9 41 24	9 Mar (68) .	6 Fm	89 8983	4197		
24 Mar (84)	2 Mon .	15 53 33	27 Feb (58) .	4 Wed.	804 2581	4198		
24 Mar (83)	3 Tues .	22 5 42	16 Mar (75) .	2 Mon.	0 8035	4199		
25 Mar (84)	5 Thur	4 17 51	6 Mar (65)	O Sat	214 6584	4200		
25 Mar (84)	6 Fri	10 30 0	25 Mar (84)	6 Fr .	249 3408	4201		
24 Mar (84)	O Sat.	16 42 9	13 Mar (73)	3 Tues .	125 0687	4202		
24 Mar (83) .	1 Sun .	22 54 18	2 Mar (61)	0 Sat.	0 7865	4203		
25 Mar (84) .	3 Tues	5 6 27	21 Mar (80)	6 Fri	35 4689	4201		
25 Mar (84)	4 Wod	11 18 36	11 Mar (70) .	4 Wed.	249 8237	4205		
24 Mar (81) .	5 Thur	17 30 45	28 Feb (59) .	1 Sun.	125 5466	4206		
24 Mar (88)	6 Ггі .	23 42 54	18 Mar. (77)	O Sat.	160 2289	4207		
25 Mar (84)	1 Sun	5 55 3	7 Mar. (66) .	4 Wed	<b>35-</b> 9518	4208		
25 Mar (84)	2 Mon .	12 7 12	25 Feb (56) .	2 Mon	250 8086	4209		
24 Mar (84) .	3 Tues .	18 19 21	15 Mar. (75)	1 Sun	284 9889	4210		
25 Mar (84)	5 Thur	0 31 30	4 Mar (68)	5 Thur .	160 7118	4211		
25 Mar (84) .	6 Fri	6 43 89 2	23 Mar (82) .	4 Wed.	195 8942	4212		
5 Mar (84)	0 Sat.	12 55 48 1	2 Mar (71)	1 Sun	71 1171	4213		
4 Mar (84)	1 Sun	19 7 57	1 Mar (61)	6 Fn	285 4718	4214		
5 Mar (84) .	3 Tues	1 20 6 2	0 Mar (79)	5 Thur .	820 1548	4215		
5 Mar. (84)	4 Wed .			2 Mon	195 8771	4216		
5 Mar (84) .				Fr.	71 5999	4217		
1				i	106 2823	4218		
5 Mar. (84) . 5 Mar (84) .	1 Sun	2 8 42	8 Mar (65) . 3	Tues .	320 6872	4219		

						CONCU	RRFNT Y	EAB.					
			- I	year in				Jotian Sai	ůγ	ATSARA		Mean intercalated (adhika) lunar	
Kalı	Śaka		Chaitradd Vikrama.	Meshadi solar Rengal	Kol	llem	A.D	Southern system		Northern system		month	
1	2		8	80		4	5	6	_	7	. _	8 <i>a</i>	
4221	1042	1:	177	526	29	14-95	1119-20	33 Vikārin	3	8 Śubhakrit .		••	
4222	1049	1	178	527	29	5 96	1120 21	34 Śārvario	8	7 Śōbhana	1	8 Kärttika	1
4228	1044	1	179	528	25	96-97	1121-22	85 Plays	3	8 Krödhin .	1	***	1
4224	104	5   1	180	529	29	77-98	1122-23	36 Śubhalpt	3	9 Vištāvasu	1	•	1
4825	104	3   1	181	530	23	98-99	1123-24	37 Śōbhana	4	O Parābhava	1	5 Srāvana	
4226	104	7   1	182	581	2	99-300	*1124-25	38 Krödhin .	4	Il Plavanga	1	***	1
4227	104	8 7	1183	532	3	00-01	1125-28	39 Višvāvasu .	4	12 Kilaka	-	•	١
4228	104	19 2	1184	533	8	01-02	1126-27	40 Parābhava .	1	13 Saumya	1	2 Vaišākha	1
4229	10	50	1185	534	. 8	02-03	1127-28	41 Plavanga	1	44 Sādhārana	1		1
4280	10	51	1188	535	i   8	303-04	<b>*1128-29</b>	42 Kīlaka .	1	45 Virðdhaknt	1	10 Pausha	1
4331	10	52	1187	538	3   8	304-05	1129-90	43 Saumya	1	46 Paridhāvin		***	١
4232	10	53	1188	587	7 :	805-06	1180-81	44 Sādhārana	-\	47 Pramadın	1	•	1
4233	10	54	1189	531	8	306-07	1131-32	45 Virodhakrit		48 Ananda .		7 Āśrina	٠
428		055	1190	53	9	807-08	*1132-88	46 Paridhāvin	•	49 Rākshasa	-	•	
428		058	119	1 54	O	308-09	1183-34	47 Pramādin	-	50 Anala .	1		
428	1	057	119	_	_ [	309-10	1134-35	48 Ananda .	-	51 Pingala .	1	3 Jyeshtha	-
4%		058	119	- 1	12	810-11	1185-86			52 Kālayukta	1		
423	- 1	1059	119		43	811-12	•1186-3′			53 Siddhärthin	-	12 Phālguna	
42	1	1060 1081	1	1	44	312-13	1187-8		-	54 Raudra		***	
	- 1	1032	1	- 1	548	818-14 814-15	1			55 Darmati .		• W2-4-1	
	252	1068	1	1	547	815-16				56 Dandubhi 57 Rudhirödgārii		8 Kärttika	
	248	106	1	. 1	548	816-17	1			57 Rudnirongarii 58 Raktāksha	II.		
4	214	106	5 1	200	549	317-1				59 Krödhana		5 Srāvana	
4	245	108	8   1º	201	550	1		1	n	60 Kshaya .		•••	
7		<del></del>			-	<u> </u>	1	1	_		, U		

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	CO	11,313	inci	EVE	NT OF THE			1
Myan	SOLAR YEAR				MPAN LUNI ROLAR CIVIL DAY ON WHIC	YEAR (MEAN S OH CHAITRA S	Whrise of the UKLA 1 BNDS)	Kali
Day and month,	Weok-day	mea	ime in Mi	eha-	Day and month, A.D	Week-day	a (here = t, the index of the tith;)	
13	14	-	17		19	20	23	1
25 Mar (84) 24 Mar (84) .	3 Tues	H 11 20	M 83	S 0 9	14 Mar (73) 2 Mar (62)	6 Fri .	231·0424 108·7652	422 422
25 Mar. (84) .	6 Fri.	z	57	18	21 Mar (80)	2 Mon.	141 4477	422
25 Mar (84) .	o Sat	9	9	27	10 Mar (69)	6 Fri	171704	422
25 Mar (84)	1 Sun.	15	21	36	28 Feb (59)	4 Wed	231 5253	422
24 Mar (84)	2 Mon .	21	33	45	18 Mar (78)	3 Tues,	266 2077	422
25 Mar (84)	4 Wod.	3	45	54	7 Mar (66)	0 Sat.	141-9306	422
25 Mar. (84)	5 Thurs	9	58	3	24 Feb (55)	4 Wed.	17 6588	422
25 Mar (84)	6 Fri	16	10	12	15 Mar (74)	8 Tuos.	52.8857	422
24 Mar (84) .	0 Sat.	22	22	21	4 Mar (64)	1 Sun	286 6906	423
25 Mar. (84)	2 Mon.	4	84	30	23 Mar. (82)	0 Eat.	801 8729	423
25 Mar (84)	8 Tues	10	46	80	12 Mar (71)	4 Wed.	177-0958	428
25 Mar (84)	4 Wed.	16	58	48	1 Mar. (60)	1 San	52:8186	428
24 Mar (84) .	5 Thurs.	23	10	57	19 Mar (79)	0 Sat	87:5011	423
25 Mar (84)	0 Sat	5	28	6	9 Mar (68) .	5 Thurs	801.8558	4231
25 Mar (84)	1 Sun	11	35	15	26 Feb (57)	2 Mon	177 5787	4236
25 Mar (84)	2 Mon .	17	47	24	17 Mar (76)	1 Sun	212-2611	4237
24 Mar (84)	8 Tues .	23	59	83	5 Mar (65)	5 Thurs .	87-9840	4298
25 Mar. (84) .	5 Thurs	6	11	42	24 Mar (83) .	4 Wed	122.6668	4231
25 Mar (84)	6 Fri	12	28	51	18 Mar .(72)	1 Sun	9998 8892 §	4240
25 Mar (84)	0 Sat	18	86	0	8 Mar (62)	6 Fra	212-7440	4241
25 Mar. (85)	2 Mon	0	48	9	21 Mar (81)	5 Thurs	247 4284	4212
25 Mar. (84)	8 Tues	7	0	18	10 Mar (69) .	2 Mon	128-0492	4243
25 Mar. (84)	4 Wed	13	12	27	27 Feb (58) '	6 Fri.	9998 8721 §	3244
25 Mar (84)	5 Thurs	19	24	8f	18 Mar (77)	5 Thors.	38 5545	4245

					C	ONCU	rbent 1	EAR				
1			LING.	yoar in		-			Jovian Sai	àva?	BABA	Mean into-calated (adhrka) lunar
Kalı.	Śaka.		Chastrada Vakrama,	Mēshādi solar 3 Bengal.	Koll	am	A.D.		Southern system		Northern system	month.
1	2	- -	3	3a	1	4	5		6		7	8a
4248 4247	106'	в	1202 1203	551 552 553	82	9-20 20-21 21-22	*1144-45 1145-46 1148-47	59	Baktāksha - Krōdhana Kshaya -	2	Prabhava .	 1 Chaitra
4248 4249 4250	100	70	1204 1205 1206	554	8	22-23 23-24	1147-48	3 1	Prabhava Vibhava	1	4 Pramöda. 5 Prajāpati	. 10 Pausha
4251 4252 4258 4254 4254	10 10 10 10	_	1207 1208 120 120	55 3 55 9 56 5 5	57   5 58   5 59	324-25 325-26 826-27 327-28 328-29	1153-	1 4 52 5 53 6 54 7	Šukla Pramoda Prajāpati Angras  Šrīmukha		6 Angiras . 7 Śrīmukha 8 Bhāva . 9 Yuvan . 10 Dhātri .	6 Bhādrapada .
	57 58 59	107 107 107 103	78 12 79 13 80 13	214 215	561 562 568 564	829-8 880-3 881-3 882-1	1 1155 2 *1156 38 1157	56 -57 1	3 Bhāva . 9 Yuvan . 0-Dhātṛr . 11 Iśvara . 12 Bahudhānya	-	11 Isvara 12 Bahudhānya 13 Pramāthin 14 Vikrama 15 Vrisha	11 Mägha
4	260 261 262 1262 1263 4264	101	082 1 083 1 084 1	216  217  218    219    1220	565 566 567 588 569	887	35 115 36 *116 -87 116 -88 116	9-60 0-61 1-62 32-63	13 Pramāthin 14 Vikrama 15 Vrisha 16 Chitrabhān	•	16 Chitrabhānu 18 Tārana . 19 Pārthīva 20 Vyaya .	. 5 Śrāvana
	4265 4266 4267 4268		1088 1087 1088 1089	1221 1222 1223 1224	1	1   33 2   84 78   34	9-40 •11 0-41	63 64 64-65 .65-66 166-67	20 Vyaya .		21 Sarvaget . 22 Sarvadhär: 23 Virödhin 24 Vikpita .	10 Paushs
	426		1090	1	ı	1	1	167-68 168-69			. 25 Khara 28 Nandana	***

^{† 17} Sabbanu was suppressed in the north by the Brahma-Siddhanta, both in true and mean reckoning

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Ī				·			(	сом	ME	NCE:	311	ent o	F 7	HE								
			М	EAN	80	OLAR TI	EAR					Mrs	L DA	08 IK 70 T	LA!	n 7	rpar (Mi ch Chai:	ran TBA	80. £01	nhise of t KLA 1 end	ДВ 8)	'·-
	Day :	and n	ont	<b>b</b> ,		Wook-d	lay		oan l	o of Mësh: rauti	-	Day	and A.	l mor D	ıth,	,	Wook	day		a (here = the inde of the telk	r	Kali.
-	***************************************	13			1	14		1-	1	7	_		1	0		_	20	)	1	23	7	1
-	,			<del></del> -	-			1	I. M	r 8	-					-	Q.		1		- -	
25	Mar.	(85)	•		10	Sat.		.   :	1 3	6 4	5	7 M	ır (	67)			8 Tues.		$\cdot  $	247-9098		4248
25	Mar.	(81)			1	Snp	,	.   ?	7 4	3 54		24 Fe	b (	55)			0 Sat.			123-6821	1.	4247
25	Mar	(8-1)			12	2 Mon		14	. 1	L E	3	15 Mc	ır. (	74)			6 Fri.			158 8145		4248
25	Mar	(84)			8	Tuos		20	) 13	3 12	1	4 Me	r (6	38)		1	8 Tues.			84-0378	1	4249
25	Mar	(85)			5	Thurs.		2	2 2	5 21	1	22 Ma	r (8	32)		$\cdot  $	2 Mon		1	68 7197	İ	4250
25	Mar	(84)			8	FrL		.   ε	82	30	١	12 Ma	r (7	1)			0 Sat.	,		283-0746		4231
25	Mar.	(84)			0	Sat.		14	48	89	1	1 Ma	r. (6	0)		.	4 Wod.			158-7974		4253
25	Mare	(84)			1	Snn		21	1	48	1	20 Ma	r. (7	9)		1	3 Tues.			193 4798		4259
25	Mar	(85)		•	3	Tnes.		3	18	57	1	8 Ma	r (6	8)		ا. ا	0 Sat.		1	69 2026	ŀ	4254
25	Mar	(84)			4	Wod.		9	26	6	1	26 Fol	(5	7)		1	5 Thur			288 5575		4255
25	Mar.	(81)			5	Thur		15	88	15	1	l7 Mai	(7	<b>B)</b>	•	.	4 Wod			818 2398		4256
25	Mar.	(84)			6	Fri		21	50	24	l	6 Mai	(6	5)		2	Sun.			193 9627	1	4257
25	Mar	(85)	•		1	San.		4	2	38	ŀ	4 Mar	(8	5)	•	10	Sat.			228·0451		4258
25	Mar.	(84)	•	•	2	Mon		10	14	42	1	8 Mar	(72	2)		1	Wed.	•		104-8680	1	4259
25	Mar.	(84)			3	Tues		18	26	<b>Б1</b>	1	8 Mar	. (62	3)		1	Mon.	•		818-7227		4260
25	Mar.	(84)		•	4	Wed.	٠	22	89	0	2	1 Mar	(80	))	•	1	Sat.			14-7781		4261
25	Mar	(85)		•	6	Fri,	•	4	51	9	12	0 Mar	. (70	)		1	Thur			229 1280		4262
25	Mar	(84)			0	Sat.		11	8	18	2	7 Feb	(58	)	•	2	Mon		:	104-8508		4268
25	Mar	(84)			1	Sun-	•	17	15	27	1	8 Mar	(77	)	•	1	Sun.		' :	189.5882		4264
25	Mar	(84)		•	2	Mon	•	28	27	86		7 Mar.	(66	)	•	5	Thur.			15 2561		4265
25	Mar.	(85)	•	•	4	V/ed		Б	89	45	2	5 Feb	(56)	)		8	Tues		5	229 6109		4286
25	Mar.	(84)	•	•	5	Thur.	•	11	51	54	1	5 Mar	(74	)	•	2	Mon.		2	64 2982		4267
25	Mar.	(84)	•		C	Fr <u>i</u> .	4	18	4	8		Mar.	(63)	)		6	Fri.		1	40-0141		4268
26	Mar.	(85)	٠		L	Sun	•	0	16	12	2	Mar.	(82)		$\cdot$	5	Taur	$\cdot$	1	74-8985		4959
25	Mar.	(85)	•		2	Mon.	•	6	28	21	1.7	Mar.	(71)		$\cdot$	2	Mon.	1		50-41GB		astu.

	<del></del>			C	ONCUR	RENT YI	EAR.		
		'ama.	year in				Jovian Sab	. ABABTAY1	Mean inte-calated (adhika) lunar
Kali.	Śaka	Chaitradi Vikrama.	Mëshëdi solar Renoal	Kol	lam	A.D	Southern system	Northern system	month
1	2	3	3a	4	ŀ	5	6	7	8a
62771	1092	12	27 67	6 34	4-45	1169-70	23 Vırödhın .	27 Vijaja .	6 Bhãdrapada .
4272	109	12	28 57	7 84	5-46	1170-71	24 Vikrita	28 Jaya .	
4278	109	12	29 5	8 84	8 47	1171-72	25 Khara	29 Manmatha	
4274	109	5 12	80 6	79 84	7-48	1172-78	26 Nandana •	30 Durmukha .	3 Jyeshtha .
4275	109	6   15	231 5	30 8	18-49	1173-74	27 Vijaja .	31 Hēmalamba	
4276	109	7   1	232 5	81 8	49-50	1174-75	28 Jaya .	32 Vılamba	. 11 Mägha .
4277	108	8 1	238   5	82 3	50-51	1175-76	29 Manmatha .	33 Vikārin .	•
4278	10	99 1	234	88 a	51-52	*1176-77	30 Durmukha .	34 Śārvatın	
4279	11	00 1	.235	584 7	52-53	1177-78	31 Hēmalamba	35 Plava .	. 8 Kārttika .
4280	11	01 1	236	585	358-54	1178-79	32 Vilamba	36 Śubhakrit	•
4281	11	.02	1237	<b>686</b>	B <b>54</b> 55	1179-80	38 Vikārin	37 Śōbhana	•
428	2 1	108	1238	587	855-50	*1180-81	34 Śārvarm	38 Krōdhm	4 Äshādha
428	3 1	104	1289	588	358-57	1181-82	35 Plava	39 Viśvāvasu	
428	` {	105	1240	589	857-58	1182-83		40 Paršbhava	•
438	1	106	124)	590	858-59	1183-84		. 41 Plavanga	· 1 Chaitra
430	1	107	3242	501	958-60	*1184-86		42 Kilaka .	
43		1108 1109	1248	592 ) 593	360-61	1185/86		. 43 Saumya	9 Märgasıra
		1110	1945	594	861-62 862-63	1		44 Sādhārana	
	299	ını	1248	595	863-64	1		45 Virodhakrit	
4	161	1112	1247	596	884-65			. 48 Paridhāvin	6 Bhādrupada
4	202	1112	(	507	265-69	1		. 47 Pramadin 48 Inanda	-
4	202	1114	1240	698	886-67			49 Rāksham	2 Valsāklu
4	1964	1111	1450	599	267-6		1	50 Anala.	
	1363	ın	3061	800	288-6	1193-		. 51 Pingala .	. 11 Mapha

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			ENT OF THE			
Mean	SOLAR TEAR.		MPAY LUNI-SOLAR CIVIL DAY ON WHI			
Day and month,	Week day	Time of mean Mēsha- samkrānti	Day and month,	Week-day	a (hero-t, the index of the tithi)	Kalı
13	14	17	19	20	28	1
25 Mar (84) .	3 Tues	H M S 12 40 80	1 Mar (60)	0 Sat	284 7782	427
25 Mar (84)		18 52 89	20 Mar (79) .	6 Fr2	291) 4588	427
26 Mar (85) .	6 Fii	1 4 48	9 Mar (68)	8 Tues	175 1815	427
25 Mar (85) .	0 Sat.	7 16 57	26 Feb (57)	O Sat .	50 9042	427
25 Mar (84) .	1 Sun	13 29 6	16 Mar (75)	6 Fri	85 5866	427
25 Mar (84) .	2 Mon	19 41 15	6 Mar (65)	4 Wed .	209 0415	427 427
28 Mar (85) .	4 Wed	8 5 38	24 Mar (88)	2 Mon 0 Sat.	9995 9918 § 210 8467	427
25 Mar (85) .	5 Thur		13 Mar (73)	4 Wed	86 0695	4279
25 Mar (84) 25 Mar. (84)	O Sat.	14 17 42 20 29 51	2 Mar (61) 21 Mar (80)	8 Tues	120.7519	4280
26 Mar (85)	2 Mon	2 49 0	10 Mar. (69)	0 Sat.	9998 4747 §	4281
	3 Tues	8 54 9	28 Feb (59) .	5 Thur	210 8298	4289
25 Mar (84) .	4 Wed	15 6 18	18 Mar (77)	4 Wed.	245 5120	4283
25 Mar. (84) .	5 Thur	21 18 27	7 Mar (66)	1 Spn	121 2349	4284
26 Mar. (85)	0 Sat	3 80 36	24 Feb (55) .	5 Thur.	9996 9576 §	4285
25 Mar (85) .	. 1 Sun	9 42 45	14 Mar. (74)	4 Wed .	81 C400	4286
25 Mar. (84) .	2 Mon	15 54 54	4 Mar (63)	2 Mon	245-9949	4287
25 Mar. (84) .	. 3 Tues	22 7 8	28 Mar (82)	1 Sun .	280 6772	4288
26 Mar (85) .	5 Thur	4 19 12	12 Mar (71)	5 Thur	158 4001	4289
25 Mar (85) .	6 F12	10 31 21	29 Feb (60)	2 Mon	82 1230	4290
25 Mar. (84) .	. O Sat	16 48 30	19 Mar (78) .	1 Sun.	66-8054	4291
25 Mar. (84) .	1 Sun	22 55 39	9 Mar (68) .	6 Fri	281 1602	4292
26 Mar. (85)	8 Tues .	5 7 48	26 Feb (57)	8 Tues	156 8830	4293
25 Mar (85) .	. 4 Wed.	11 19 57	16 Mar (76) .	2 Mon .	191 5854	4294
25 Mar. (84) .	. 6 Thur	17 - 82 6	5 Mar (64) .	6 Fri.	67 2882	4295

TABLE

						YEAR		\s_1
		kroms	r year in			Jovian Sa	mvatsara.	Mean interculated (adhika) lunar
Kalı.	Śaka.	Chartindi Vikrame.	Mehidi solar Bongal	Kollam	AD	Southern system	Northern system	month.
1	2	3	За	4	5	6	7	84
4298	1117	1252	601	369-70	1194-95	48 Ananda	52 Kālayukta .	
4297	1118	1253	602	370-71	1195-96	49 Rālshasa	53 Sıddhā-thin	
4298	1119	1254	603	371-72	*1198-97	50 Anala	54 Raudra	8 Kārttika 1
4299	1120	1255	604	372-73	1197-98	51 Pingala .	55 Durmatı	•
4000	1121	1256	605	373 74	1198-99	52 Kālayukta	56 Dundubhi	
4.'01	1122	1257	606	374-75	1199-1200	53 Siddhärthin	57 Rudhırödgärin	4 Āshādha .
4302	1123	1258	607	375 76	<b>#</b> 1200-01	54 Raudra	58 Raktālsha •	
1803	1124	1259	608	376-77	1201-02	55 Durmatı	59 Krōdhana	
4304	1125	1260	603	377-78	1202-03	56 Dundubhi	60 Kshaya	1 Chartra
4205	1126	1251	610	378-79	1203 04	57 Rudhıfödgärın	1 Prabhasa	
4305	1127	1262	611	379-80	*1204-05	58 Raktāksha	2 Vibhava	9 Mārgasīra
4807	1128	1263	612	380-81	1205-06	59 Krödhana	3 Sukla	•••
4308	1129	1254	613	381-82	1206-07	60 Kshaya .	4 Pramoda	***
4309	1120	1265	614	382-83	1207-08	1 Prabhava	5 Prajāpatı	6 Bhadrapada
4310	1131	1266	615	383-84	*1208-09	2 Vibhava .	6 Anguras	
4311 4512	1132	1267	616	384-85	1209-10	3 Śukla	7 Śrimukha	
4318	1133	1			1210-11	4 Pramõda .	8 Bhāva	2 Varšākha
4314	1135		}	1	1211-12	5 Prajāpati	9 Yuvan	•••
4° 15	1126		1		1	6 Angiras .	10 Dhātrı .	11 Māgha
4316	1137	1		1	1	7 Śrīmukha	11 Iśwara	
4317	1	1	1			8 Bhava	12 Bahudhānya	. 1
4318	1189	1					13 Pramāthin	7 Āśvina .
4315	1114	0 127	1	1	1	10 Dhātri	14 Vikrama	••
4320	114	1 127	6 62		-221-10	11 Iśvara 12 Bahudhānya	15 Vrisha .  16 Chitrabhānu .	4 Ashādha

[‡] Seq "Roma ka." p. 215 alove.

XC-contd.

	,		IENT OF THE	OMMENCE	C	
Kali.	unrise of the ukla 1 ends)	YBAR (MEAN SI DH CHAITBA ŚI	MEAN LUNI-SOLAE :		SOLAR YEAR.	Mean
	a (here=t, the index of the tithi)	Week-day.	Day and month, A D.	Time of nean Mësha- samkranti	Week-day	Day and month,
1	23	20	19	17	14	18
4298	101 9706	5 Thur.	24 Mar (83) .	H M S	6 Fr.	25 Mar. (84)
4297 4298	316 3255	3 Tues .	14 Mar. (78)	5 56 24	1 Sup	26 Mar (85) .
4299	192 0482 226-7307	6 Fri.	2 Mar (62) 21 Mar (80)	.8 20 42	2 Mon 3 Tues	25 Mar (85) .
4800	102 4535	3 Tues.	10 Mar (69)	.8 20 42 0 32 51	5 Thur	25 Mar (84) . 26 Mar (85) .
4301	816 8083	1 Sun	28 Feb. (59)	6 45 0	6 Fr	26 Mar (85) .
4802	12 8587	6 Fm	17 Mar. (77)	2 57 9		25 Mar. (85)
4303	227 2156	4 Wod	7 Mar (66)	9 9 18		25 Mar (84) .
4304	102 9863	1 Sun.	24 Feb (55) .	1 21 27	3 Tues	26 Mar. (85)
4305	187 6188	O Sat.	15 Mar (74)	7 93 36	4 Wed	26 Mar (85)
4306	13 8416	4 Wed.	8 Mar. (68)	3 45 45	5 Thur.	25 Mar. (85)
4807	<del>4</del> 8 0239	3 Tues	22 Mar (81)	0 57 54	6 Fm .	25 Mar. (84)
4303	262 3788	1 Sun	12 Mar (71)	2 10 3	1 Sun	26 Mar (85)
4309	188 1017	5 Thur	1 Mar. (60) .	3 22 12	2 Mon.	26 Mar (85) .
4910	172-7840	4 Wed.	19 Mar (79)	84 21	3 Tues . 1	25 Mar (85)
4311	48 5069	1 Sun.	8 Mar. (67)	46 80	4 Wed	25 Mar. (84)
4312	262 8617	6 Fn .	26 Feb (57)	58 39	ß Fra	26 Mar (85) .
4813	297 5441	5 Thur.	17 Mar (76)	10 48	O Sat.	26 Mar. (85) .
4914	178 2669	2 Mon	5 Mar (65)	22 57	1 Sun   1	25 Mar (85) .
4315	207 9493	l Sun.	24 Mar (88)	85 6	2 Mon 2	25 Mar (84) .
4316	83 6729	5 Thur.	18 Mar (72) .	47 15	4 Wed.	26 Mar (85)
6317	298-0269	3 Tues.	3 Mar. (62)	59 24	5 Thur	28 Mar (85)
4918	332-7094		21 Mar (81)	11 83	6 Fm . 1	25 Mar (85) .
4319	203 4322	•		23 42	0 Sat 2	25 Mar (84) .
4320 ———	84 1551	Tues.	27 Feb (58) . S	85 51	2 Mon	26 Mar (85) .

3				CONC	URRENT	YEAR			
Kalı.	Śaka	'ikı anıa.	solar year in	Kollam	A.D	JOYIAN S	SAS	«Vatrara	Mean inte-calated (adhika) lunar
Maji.	Caka	Charte id I Vike anch.	Mehūili sol Bongal.	Kollam	A.D	Southern system		Northern system	mouth
1	2	3	Зa	4	5	6		7	8 <i>a</i>
4321	1142	1277	628	394-95	1219-20	13 Pramāthin		17 Subhānu	
4322	1143	1278	627	395-96	*1220-21	14 Vikrama		18 Tārana	12 Phālguna
4323	1144	1279	628	396-97	1221-22	15 Vrisha	1	19 Pā tluva	1
4321	1145	1280	629	297-98	1222-23	16 Chit-abhānu		20 Vyaya .	
4325	1146	1281	630	398 99	1223-24	17 Subhānu		21 Sarvajit .	9 Mārgasīra
4328	1147	1232	631	399-400	*1224-25	18 Tārana		22 Sarvadhārın	-
4327	1148	1283	632	400-01	1225 26	19 Pārthiva	$\cdot$	23 Virādhin	
4328	1149	1284	633	401-02	1226-27	20 Vyaya		24 Vikpta	. 5 Śrāvana .
4329	1150	1285	634	402-03	1227-28	21 Sarvajit .	١	25 Khara .	
4330	1151	1286	635	403 04	*1228-29	22 Sarvadhāmn	1	26 Nandana	
4331	1152	1257	636	401-05	1229-30	23 Yırōdhın		27 Vijaja .	. 2 Valšākha
4332	1153	1288	637	405-06	1230-31	24 Viknta .		28 Jaya .	
4333	1154	1289	638	403 07	1231 32	25 Khara .		29 Manmatha	10 Pausha
4334	1155	1290	639	407-03	*1232-33	26 Nandana.		30 Durmukhs	
4335	1155	1291	640	408-03	1233-34	27 Vijaya .	]	31 Hēmalamba	
4335	1157	1292	841	403-10	1234-35	28 Jaya .		32 Vilamba	. 7 Āśvina
4337	1158	1293	}	410-11	1235 36	29 Manmatha	-	33 Vikārin .	
4338 4339	1159		1	411-12	*1238-37	30 Durmukha		34 Śārvarın .	
4340	1160	1		1	1237-38	31 Hēmalamba		35 Plava .	4 Āshādha
4341	1	1		1	1238 39	32 Vilamba .		36 Śubhaknt	
4342		1	1	1	1239-40	}	•	37 Śōbhana .	. 12 Phālguna
4343	1	1	1	1	*1240-41	34 Śārvarin .		38 Krōdhin	
4244	1	1	1	,	1241-42		•	39 V15vāvasu	.
4845	1		1		1242-43 1243-44	- STORESTILL	•	40 Parāhhava	9 Märgafıra
===		<u> </u>	1	1	1	37 Śōbhana .	•	41 Playanga	

XC-contd.

•	UNRISE OF THE	MEAN ST	BAR (ME.	LAR 3	LUNI 80	ME				R YEAR.	POT	Dist	7.5		
Kal	UKLA 1 BNDS)	AITBA Ó	он Снаг	WHI	L DAY O	01				. LIAL.	800	DAM		····	
	a (here=t, the index of the tsthi)	ek-day	Week-	nth,	and mo	. 1	estin	lime in M mkrä	mes	ook-day	77	1,	nth	nd mo	Day a
1	28	20	20		19			17		14				13	
432	118 8874	373	2 Mon		Tar (77)	1,5	-	M 48	H 10	Tues .	9			/o ۲\	. Man
482	388 1923		0 Sat		far (67)	1	_	-£G	17	Wed.			•		Mar.
432	29 2427	•	5 Thur		Iar (84)	1		12	23	Thur.				• •	i Mar i Mar
482	243 5975		3 Tues		far (74)	•		24	5	Sat.		•			3 Mar
432	119 3208	ŧ	0 Sat		[ar (63)	1	36	36	11	San	1			•	Mar.
432	154 0027	ı	6 Fri		[ar. (82)	22	45	48	17	Mon.	2			• •	Mar
432	29 7256	<b>68</b>	3 Tues		[ar (70)	11	54	0	0	Wed	4			-	3 Mar
432	244 0804	n	1 Sun		ar (60)	1	3	13	6	Thur	5				Mar.
432	278.7628		0 Sat.		ar (79)	20	12	25	12	Frı .	6			•	3 Mar
433	154 4857	od.	4 Wed		[ar (68)	8	21	37	18	Sat	0			(85)	5 Mar
433	30·2084	ا، م	1 Sun	•	ob (56)	25	80	49	0	Mon	. 2	•		(85)	Mar
433	64 8908	• •	0 Sat.	-	ar (75)	16	39	1	7	Tues	. 8	•		(85)	3 Mar
433	279-2457	ar .	5-Thur	1	ar. (65)	6	48	18	13	Wod.	. 4	•		(85)	3 Mar
493	318-9281	.d	4 Wed.		ar (84)	24	57	25	19	Thur	. 5	•	•	(85)	5 Mar
433	189 6809	•	1 Sun		ar (72)	18	6	38	1	Sat	. 0	•	•	(85)	8 Mar
433	65 3788	nr	5 Thur		ar (61)	1		50	7	Sun	.   1	•	•	(85)	6 Mar
433	100.0562	- 1	4 Wed	- 1	ar (80)	1		2	14	Mon	. 2	•		(85)	6 Mar
438	314 4110	i	2 Mon	.	ar (70)	1	33		20	Tues	. 8	•	•	(85)	5 Mar
4931	190 1938	1	6 Fm		eb (58)	1		26	2	Thur	·   6	•	•	(85)	6 Mar
434	224 8162	•	5 Thur	}	ar. (77)	1		38	8	Fra	1	•	•	(85)	6 Mar
484: 484:	100 5891	į	2 Mon		far (66)	l l		51	14	Sat	-	•	•	(85)	6 Mar
484	135 2214 10·9443	į,	1 Sun 5 Thur		(ar (85) (ar (73)	ł		3	21	Sun	- {	•			5 Mar
434	225 2991	- 1	3 Tues		_			15 97	3	Tues.	-	•		•	8 Mar
434	259 9815		2 Mon	N.	far (63) far (8 <b>3</b> )	- 1		27 39	9	Wed Thur .	1	•		(85)	8 Mar

					CONCU	REENT TH	AR.					
		krama.	r year in				Jovian Sa	ůТ	TATBARA		Mean interculated (adhika) lung	ir
Kell	Éaks.	Chaitradi Vakrama.	Menhadi solar	- 1 -	Collam	A.D.	Southern system.		Northera system		` month,	
1	2	3	30		4	5	6	1	7		80	
4346	1167	130	2 65	1	419-20	*1244-45	38 Krödhin .	1	42 Kilaka† .		***	
4347	1168	130	3 65	2	420 21	1245-46	39 Viśvāvasu	1	44 Sādhārana	1	5 Śrávana	
4348	1169	120	<b>4</b> 68	3	421-22	1248-47	40 Parābhava		45 Virodhakrit		•••	
4349	1170	130	5 6	54	422-23	1247-48	41 Plavanga		48 Paridhātin	-	•••	
4350	1171	130	6 6	55	423-24	*1248-49	42 Kīaka .		47 Pramadın	1	2 Vaišākba	•
4351	1172	130	77 e	56	424-25	1249-50	43 Saumya .		48 Ananda		••	
4352	1173	120	DS   6	57	425-26	1250-51	44 Sādhārana	$\cdot  $	49 Rākshasa	- :	10 Pausha	•
4353	1174	130	09 6	58	428-27	1251-52	45 Vırödhakınt	-	50 Anala .		• •	
4354	1175	13	10 6	359	427-28	<b>*</b> 1252-53	48 Parıdhāvin	-	51 Pingala	1	• •	
4355	1176	1	11 (	360	423-23	1253-54	47 Pramādın	-	52 Kālayukta		7 Astina	•
4358	1177	1-	1	661	420-30	1254-55	48 Ananda .		53 Siddbärthin	-	• • • • • • • • • • • • • • • • • • • •	
4357	117	1 ~`	1	662	430-31	1255-56	49 Rākshasa	•	54 Baudra .	-	• •	
4358 4359	117	1-	1	663	431-32	*1256-57	50 Anala .	•	55 Durmatı	1	3 Jyeshtha	•
4350	118	1	315	664	432-33	1257-58	51 Pingala .	•	56 Dundubhi	1		
4351	1	1	316	665	433-34	1258 59		•	57 Rudhirödgárn	n	12 Phālguna	•
4362	\	~ \ \	1318	888	1		•	•	58 Raktāksha		•••	
438	1	- [	1319	667 665	1			•	59 Krodhana	-	•	
428	1	1	1320	669	1				60 Kshaya .	1	8 Kärttika	
438	. }		1321	67			4	•	1 Prabhava	1	••	
438	8 1	187	1322	67.				173	2 Vibhava 3 Śukla .	1	5 Śrāvana	
436	7 1	188	1323	67	1	1		٠	4 Pramoda	1	o Sravana	
421	18 1	189	1324	67	3 441-4	1			5 Prajāpata	İ		
43	1	120	1325	67	442-4		}		6 Angiras .		1 Chartra	
43	70	1191	1325	e	75 443-4	4 *1268-6		Ì	7 Śrīmukha		- Onairi	

^{† 43} banm-a was suppressed in the north by the mean system. By the "true" system K Y 4346 (expired), AD 1245-46, was called "feumys," 44 Sedhāraja being suppressed. The next year was 45 Virôdhakni by both

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						<del>,</del>
	COM	MENCLMI	ENT OF THE			
BIEAT	SOLAR YEAR		Mran IU41-80LAR Y			Kab.
Day and month, A.D.		Time of can Misha- amkränti.	Day and month,	Week-day	a (hore=1, the index of the tithi)	
13	14	17	19	20	23	1
25 Mar. (85)	6 Fr 2		11 Mar (71) .	6 Fn	135 7043	4346
28 Mar (85)		4 3 54	28 Pob (69) · .	3 Tues	11 4272	4347
26 Mar (85)	2 Mon . 1		10 Mar (78)	2 Mon	46 1096	4348
26 Mar. (85)	3 Tues . 1		9 Mar (68)	O Fat	260 4644	4349
25 Mar (85) .	4 Wed. 2		28 Feb (57)	4 Wed	186 1872	4350
26 Mar (85)		4 52 30	18 Mar (75)	3 Tues	170 8696	4351
28 Mar (85) .	O Sat. 1		5 Mar (64)	0 fat	46 5925	4352
28 Mar. (85) .	1 Fun . 1	7 16 48	24 Mar (83)	6 Fra	81 2748	4858
25 Mar (85)	1	3 28 57	13 Mar (73)	4 Wed	295 3297	4354
28 Mar. (85)	4 Wed	5 41 6	2 Mar (61)	1 Son	171 3526	4355
28 Mar (85)	5 Thur. 1	1 53 15	21 Mar (80) .	O Sat .	206 0849	4°58
28 Mar (85)	6 Fm . 1	8 6 24	10 Mar (69) .	4 Wed	81-7577	4357
28 Mar. (86)	1 Ean.	0 17 38	28 Feb (59) .	2 Mon	296 1126	4358
26 Mar. (85)	2 Mon	6 29 42	18 Mar. (77)	1 San .	830 <del>-7</del> 950	4859
26 Mar (85)	3 Tues . 1	2 41 51	7 Mar (66) .	5 Thur	206 5178	4360
28 Mar. (85)	4 Wed 1	8 54 0	26 Mar. (85)	4 Wod .	241 2002	4361
26 Mar. (86) .	6 Fr	1 6 9	14 Mar (74) .	1 Sun	116 9231	4362
26 Mar (85)	O Eat	7 18 18	4 Mar (63)	6 Fr ₂	331 2778	4363
26 Mar. (85)	1 San 1	3 30 27	22 Mar (81)	4 Wed	27 3283	4364
28 Mar (85)	2 Mon 1	0 42 38	12 Mar (71) .	2 Mon .	241 6831	4365
28 Mar. (86)	4 Wod	1 54 45	29 Feb. (60) .	6 Fr	117 4080	4366
28 Mar. (85)	5 Thur.	B 6 54	19 Mar. (78)	5 Thur	152 0883	4387
28 Mar (85)	6 Fm 1	4 19 8	8 Mar (67) .	2 Mon .	27 8112	4868
28 Mar (85)	0 Sat 2	0 31 12		O Sat	242 1660	4359
20 Mar (80) .	2 Mon	2 43 21	16 Mar (76) .	6 Fri.	276 8493	4370

				(	ONCUR	RENT 1E	AR		
		nme.	solar 3 car ın				LA4 PAITOL	tart, l	Nean Interrelated (adheka) lunar
Kalı	Śaka	Chatrid Vikrama	Mrshäth solar Bengal	Ko	llam	A D.	Southern ays*cm	Northern system	month
1	2	3	3α	1	4	б	6	7	82
4371	1192	1327	678	44	14-45	1269 70	3 Śukla	8 Bhisa .	10 Pausia .
4372	1193	1329	677	4	15 46	1270-71	4 Pramoda .	o lavan	1
4373	1191	1320	678	4	16 47	1271-72	5 Prijāpati .	10 Dhatp	
4374	1195	1330	679	4	17-48	*1272-73	6 Angiras	11 Irvara .	7 Asura .
4375	1196	133	1 686	) 4	48 49	1273 74	7 Śrimukha .	12 B-hudhānya	
4376	1197	133	2 68	L   4	49 50	1274-75	8 Bhava .	13 Pramšthin .	
4377	1198	133	3   G8	2 4	50 51	1275 76	9 Yusan	14 Vikraina	3 Jyështha .
4378	1199	133	4 68	3 4	51-52	*1276 77	10 Dhātp	15 Vrisha .	
4379	1200	133	5 68	4	152 53	1277-78	11 Isvara	16 Chitrabhāna .	12 Puilgom .
4380	1	1	1	- 1	153 54	1278-79	12 Bahudhānya .	17 Sabhāna	
4381	- 1	_			154 55	1279 80	13 Pramathin	18 Tärana	
4382		- <b> </b>		1	455 56	*1230 81	14 Vikrama .	19 Parthiva	8 Kärttika .
4383 438				-	456-57	1281-82	15 Vrisha	20 Vyaya .	•••
438				90	457-58 458 59	1282-83 1283 84	16 Chitrabhanu 17 Subhānu	21 Sarvajit . 22 Sarvadbārin	5 Srāvana
438				501	459 60	*1284 85		. 23 Virödhin	
438	37 12	08 1	343	392	460 61	1285 86		. 24 Vikrita	" "
43	88 1	209 1	344	693	461 62	1286 87		25 Khara	. 1 Chaitra .
43	89 1	210 1	345	694	462-63	1287-89	1	26 Nandana	
43	90 1	211 1	1346	695	463 64	*1288 89	22 Sarvadhārm	27 Vijaya .	. 10 Pausha
	ì	212	L347	696	464-65	1289 90	23 Virödhin	. 28 Jaya .	
			1348	697	465 68	1290 91	24 Vikrita .	. 29 Manmatha	
			1349	698	466 67			. 30 Duraiukha	6 Blifidmpada.
			1350	699	467-68		1	31 Hēmalamba	
* ₩	000	1216	1351	760	468-69	1293-9	4 27 Vijaya .	. 32 Vilamba	

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							7
		COMMFN	CEM	ent of the			
Mra	N SOLAH TRAD			CIVIL DAY OV WHI			Kalı.
Day and month,	Week-day.	Time mean 3 samkr	lesha-	Day and month, A D	Week day.	a (here=t, the index of the tithi)	
13	15	17		19	20	23	1
26 Mar (85) .  26 Mar (85) .  26 Mar (85) .  26 Mar (86) .  26 Mar (85) .  26 Mar (85) .  26 Mar (86) .  26 Mar (86) .  26 Mar (86) .  26 Mar (86) .  26 Mar (85) .  26 Mar (85) .  28 Mar (85) .  28 Mar (85) .  28 Mar (85) .	. 3 Thes . 4 Wed . 5 Thur . 0 Sat . 1 Sun . Mon 3 Tues, . 5 Thur . 6 Fri . 0 Sat 1 Sun . 3 Tues . 4 Wed 5 Thur . 6 Fri . 6 Fri . 7 Thur . 7 Tues . 7 Thur . 8 Fri . 9 Sat 1 Sun . 1 Sun . 2 Tues . 5 Thur . 6 Fri . 7 Thur . 7 Tues . 7 Thur . 8 Fri . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thur . 9 Thu	H M 8 56 7 15 7 16 16 16 16 16 16 16 16 16 16 16 16 16	30 39 39 43 57 4 6 3 15 3 24 2 42 4 51 7 0 9 18	5 Mar (64)  24 Mar (83)  18 Mar (72)  2 Mar (62)  21 Mar (80)  10 Mar (89)  27 Feb (58)  17 Mar (77)  7 Mar (66)  25 Mar (84)  15 Mar (74)  3 Mar (63)  22 Mar (81)  11 Mar (70)  1 Mar (60)	3 Tues 2 Mon . 6 Fr 4 Wed . 3 Tues 0 Sat 4 Wed 3 Tues 1 Sun . 6 Fr 4 Wed . 1 Sun 0 Sat . 4 Wed .	152 5712 187 2586 62 9765 277 3813 312 0137 187 7385 63 4593 98 1417 312 4966 8 5470 222 9018 98 6246 188 3071 9 0299 223 3847	4871 4872 4878 4874 4876 4876 4377 4378 4379 4880 4881 4382 4383 4384
26 Mar (85) 26 Mar. (86) .	6 Fn 1 Sun	. 23 45 . 5 57		1 Mar (60) 19 Mar (79)	2 Mon	258 0671	4886 4886
26 Mar (85) . 26 Mar (85) .	. 2 Mon . 3 Tues	12 2		8 Mar (67) . 25 Feb. (68) .	5 Thur . 2 Mon	183 7900 9 5127	4887 4988
27 Mar (88) .	5 Thur	. 0 84	- 1	16 Mar (75)	1 Sun	44 1952	4389
26 Mar (86) .	. 6 Fr.	. 6 48		5 Mar (65) .	6 Fzı	258 5500	4390
26 Mar (85) .	. O Sat.	. 12 58	80	24 Mar (83) .	5 Thur.	293 2324	4391
26 Mar (85) .	. 1 Sun.	. 19 10	89	13 Mar (72) .	2 Mon .	168 9562	4392
27 Mar. (86) .	. 3 Tues	. 1 22	48	2 Mar (61)	6 Fr	44 6781	4893
26 Mar. (86) .	. 4 Wed.	. 7 84	57	20 Mar (80)	5 Thur.	79 3605	4894
26 Mar. (85) .	. 5 Thur.	. 13 47	6	10 Mar (69)	3 Tues	293.7152	4895

	~				CO	NCURE	ENT YE	AR						
		uma		year in					Jovian Sa	šiv.	atsaba.	1) (a)	Mean ntercalated thika) lunar month.	
Kalı.	Saka	With the Wiles		Meshildi solut Bongal	Kol	lam	A D		Southern system.		Northern system.			
1	2	- -	3	32	Ī	4	5		6		7		8a	
4396 4397	121		352 353	701 702		39-70 70-71	1294-95 1295 96	2	3 Jaya		33 Vilārin • 34 Śārvarin •		Jyështha .	
4399	121	9]1	354	703	4	71-72	*1295 97	1	O Durmulha	1	35 Plava • •			
4399	122	0 1	355	704	4	72-73	1297-98		1 Hémalamba	1	36 Šubhakyıt •		- 18	
4400	122	1 1	1356	703	4	73-74	1293-99	1	2 Vilamba	1	37 Śōbhana •		Kārttiks •	
4401	122	22	1357	70	3 4	74-75	1299-1300	1	3 Vikāmi .		38 Krödhin	` `	***	
4402	12	23	1359	70	7 4	75-76	*1300-01	1	34 Śārvarın		39 Viśvāvasu	1		
4403	12	24	1359	70	8-J +	176 77	1301-02		35 Plava	1	40 Parābhava	1	Āshādha •	
4401	12	25	1350	70	9	477-78	1302 03		36 Śubhaknt		41 Plavanga	۱ ٔ		1
4405	12	28	1361	71	~	478-79	1303-0	1	37 Śőbhana		42 Kilaka .		***	1
4405	12	227	1362	1	_	479-80	*1304-0	1	38 Krōdhin		43 Saumya .	1.	1 Chartra •	1
4457	- 1	228	136	1	12	480-81	1305-0	ı	39 Vistāvasu		44 Sädhärana	1	, Ommissa	1
4409	1	223	136	1	13	481-82	1306-0		40 Parābhava	İ	45 Virödhakrit	Ί,	0 Pausha ‡	1
410		230	136	1	14	482-83			41 Plavanga	•	46 Paridhāvin	1	U Zausus +	1
441		1231	136	36 7	15	483 84		- 1	42 Kilala .		47 Pramādin			1
441	- 1	1232	130	- 1	716	481-85	· L	1	43 Saumya	•	48 Ānanda .		6 Bhādrapada	
44) 44	1	1233 1234	1	69	717	485-86 486-8	1		44 Sādhārana		49 Rākshasa 50 Anala		,	1
	14	1235	1	370	718 719	487-8	1		45 Vırödhakrit 46 Parıdhävın	•	51 Pingala .	1	4.	1
	115	1236	1	371	720	1	1		47 Pramādin		52 Kālayukta		8 Jyështha	١
	416	123	1	372	721	1	1				53 Siddhārthin	1	•••	1
	417	123	- 1	1873	722	1	1				54 Randra .		11 Māgha	
	<b>418</b>	12	1	1974	723	1	1				. 65 Durmati	.]	***	
	4419	12	40	1375	72	492	į				. 56 Dandabhi	1	• •	
_ <del>.</del>	<b>442</b> 3	12	42	1376	72	5 433	94 131	<b>&amp;-1</b> 9			. 57 Rudhırödgā	מכו	8 Kārttika	
_						+ 1.	× 11 1/2	-	'a 215 procedure					_

^{\$ 500 &}quot; Remarks," 2 215, preceding this Table.

XC-contd.

	C	OMM	ENC	EMI	ent of the			
Mean	SOLAR TEAD				CIVIT DAY ON WH			Kalı
Day and month, A.D	Week day	mea	imo u Mi nkrā	sha-	Day and month, A D	Wook-day.	a (here = t, the index of the tithi)	
13	11		17		19	20	23	1
26 Mar (85) .	6 Fn	H 19	M 59	5 15	27 Гов (58)	0 Sat	169 4381	439
27 Mar (66) .	1 Sun .	2	11	24	18 Mar. (77)	6 Fr	204 1205	439
26 Mar (86) .	2 Mon	8	23	33	6 Mar (66)	3 Tues	79 8438	439
26 Mar (85) .	3 Tues .	11	35	42	25 Mar (84)	2 Mon	114 5257	439
26 Mar (85) .	4 Wol	20	47	51	15 Mar (74)	0 Sat	328 8806	440
27 Mar (86)	6 Fri .	3	0	0	4 Mar (63)	4 Wed .	204 8034	440
26 Mar (86)	0 Sat	9	12	9	22 Mar (82)	3 Tues .	239 2859	440
26 Mar. (85)	1 Sun	15	21	18	11 Mar. (70)	0 Sat .	115 0087	440
26 Mar (85)	2 Mon	21	36	27	1 Mar. (60) .	5 Thur .	829 3635	440
27 Mar (86)	4 Wed .	3	48	36	19 Mar. (78)	3 Tues .	25 4189	440
26 Mar (86)	5 Thur	10	0	45	8 Mar (68) .	1 San	239 7688	410
26 Mar (85)	6 Fr	16	12	54	25 Teh. (56)	5 Thur.	115 4915	440
26 Mar. (85)	O Sat.	22	25	3	18 Mar (75) .	4 Wed .	150 1739	440
27 Mar (86)	2 Mon	1	87	12	5 Mar (64) .	1 Sun	25 8988	440
26 Mar (8 ⁶ )	3 Tues .	10	49	21	23 Mar (83)	0 Sat	80 5791	4410
26 Mar. (85)	4 Wed .	17	1	80	13 Mar (72) .	5 Thur	274 9340	4411
26 Mar (85)	5 Thur .	23	18	39	2 Mar (61)	2 Mon .	150 6569	441
27 Mar (86) .	0 Sat.	5	25	48	21 Mar. (80) .	1 Sun	185 3393	4418
26 Mar (86)	1 Sun	11	87	57	9 Mar (69) .	5 Thur .	61 0621	4414
26 Mar (85)	2 Mon	17	50	6	27 Feb (58) .	3 Tues .	275 4169	4418
27 Mar (86) .	4 Wod.	0	2	15	18 Mar (77)	2 Mon .	310 0993	4416
27 Mar (86)	5 Thur.	6	14	24	7 Mar. (66)	6 Fm	185 8221	4417
26 Mar. (86)	6 Fri.	12	26	83	25 Mar (85) .	5 Thur	220 5045	4418
26 Mar. (85)	. 0 Sat.	18	38	42	14 Mar (73) .	2 Mon .	96 2274	4419
27 Mar (80)	2 Mon	0	50	51	4 Mar (63)	O Sat .	810 5822	4420

·····					CONC	URRENT Y	EAR		
		cama.		year in			Jovian Sañ	IVATSABA.	Mean interculated (adhika) lunar
Kalı.	Śaka	Chaitradl Vikrama		Mēshādi solat Bengal	Kollam.	A.D	Soutbern system	Northern system	month
1	2	8	1	G"	4	5	6	7	80
4421	1242	1	1	726	494-95	1319 20	53 Siddhārthın 54 Raudra	58 Raktäksba 59 Krödhana	
4422	1243	i	1	727	495-96	1321-22	55 Darmati	60 Kshaya	4 Āshādha
4423	1244		79	728 729		1322-23	56 Dundubhi	1 Prabhava	7 7101114014
4424	1245		80   81	730		1322-23	57 Rudhirödgärin	2 Vibhava	""
4428	124		382	731			58 Raktāksha	3 Śukla	1 Chaitra
4427	124		383	732			59 Krödhana	4 Pramoda	
4428	124		384	733			60 Kabaya	5 Prajāpati	9 Mārgasīra
4423	125	0 1	385	734	502-03	1327-28	1 Prabhava	6 Anguras .	****
4430	12	1 1	.286	735	5 503-04	*1328-29	2 Vibhava	,7 Śrīmukha	
4431	12	52 1	1387	78	504-0	1329 30	3 Śukla	8 Blasst	6 Bhādrapada
4489	12	53 7	1888	73	7 505-0	1330-31	4 Pramöda	10 Dhätre	
443	3   12	54	1389	73	8 506-0	7 1331-32	5 Prajāpatı	. 11 Tévara .	
448	_		1890	73	507-0	8 1332-33	6 Anguras	12 Bahudhanya	2 Vaisākha
413	_	1	1891			2000 03	7 Srīmukha	13 Pramāthın	
443	-	- 1	1899			}	1	. 14 Vikrama	11 Māgha
445		258 259	1893 189	1	42   510-1			15 Presha	
44	. }	280	139		48 511- 44 512-			. 16 Chitrabhann	# T/mm
44		261	189		45 518-	1		17 Subhānu 18 Tārans	7 Asvina
4	A1 2	282	129		49 514			19 Pürthıva	
41	42	L283	139	18 7	47 515-			. 20 Vyaya	4 Ashādha
44	43	1264	138	29 7	48 516-			21 Sarvejit .	
44	H	1265	140	00 2	749 517-	1		. 22 Sarvadhärm	12 Phälguna
44	<b>145</b>	1286	140	C3   7	750 518.	19 1343-4	4 17 Sabhāna	. 23 Vırödhin	

^{† 2} Ynyan was expressed in the north by the mean system By the "true" system KY 4431 (expired), A.D 1330-81 was called "Yuvan," and 10 Dhatri was suppressed. The next year was 11 Isvara by both systems.

XC-contd.

	(	COM	MEN	CEN	ENI OF THE			
Mean	BOLAR TRAR				Me in enni-goi ar ch il day on whi			Kalı
Day and mouth,	Week-day	mer	line in Mi mkrä	arla	Day and month,	Wook-day.	a (here = t, the index of the tithi)	
13	14	-	17		19	20	23	1
27 Mar (86) .	3 Incs .	H. 7	M 3	S 0	22 Mar (81)	5 Thur	6 6326	442
26 Mar (86)	4 Wed	13	15	១	11 Mar (71)	8 Tues	220 9874	442
26 Mar (85)	5 Thur	19	27	18	28 Feb (59)	0 Sat	96 7103	442
27 Mar (86)	O Sat.	1	39	27	19 Mar (78)	6 Fr	131 3926	442
27 Mar (66)	1 Sun .	7	51	86	8 Mar (67)	3 Tues	7 1155	442
26 Mar (86)	2 Mon	14	3	45	26 Feb (57) .	1 Sun	221 4703	442
16 Mar (85)	3 Tues	20	15	54	16 Mar (75)	0 Sat	256 1527	442
27 Mar (86)	5 Thur	2	28	3	5 Mar (64)	4 Wed	181 8755	442
27 Mar (86)	6 Fr	8	40	12	24 Mar (83)	3 Tues	166 5579	4420
16 Mar. (86) .	O Sat.	14	52	21	12 Mar (72)	O Sat.	42 2808	4430
26 Mar. (85)	1 Sun.	21	4	30	2 Mar (61)	5 Thur	256 6856	4181
27 Mar (86)	3 Tues	3	16	39	21 Mar (80)	4 Wed	291 8180	4432
27 Mar (86)	4 Wed	9	28	48	10 Mar. (69)	1 Sun	167 0409	4488
26 Mar (86)	5 Thur	15	40	67	27 Feb (58)	5 Thar	42 7637	4434
26 Mar (85) .	6 Fri	21	53	6	17 Mar (76)	4 Wed	77 4160	4485
27 Mar. (86)	1 Sun	4	5	15	7 Mai (66)	2 Mon	291 8009	4436
27 Mar (86)	2 Mon	10	_,	24	25 Mar (85) .	1 Sun	326 4833	4487
26 Mar (86)	3 Tues .	16	29	88	14 Mar (74) .	5 Thur	202 2062	4438
26 Mar (85)	4 Wed	22	41	42	3 Mar (62)	2 Mon	77 9289	4439
27 Mar (86)	6 Fri	4	53	51	22 Mar (81)	1 Sun	112 6114	4440 4441
27 Mar (86)	0 Sat	111	8		12 Mar (71) 29 Feb (60) .	6 Fri 8 Tues	326 9662 202 6890	4442
26 Mar (86) 26 Mar (85)	1 Sun 2 Mon	17 23	18 80	9 18	29 Feb (60) . 19 Mar (78)	2 Mon	237 3714	4448
20 Mar (85) 27 Mar (80)	4 Wed.	1	42		8 Mar (67)	6 Fr.	118 0948	4444
27 Mar (86)	5 Thur	ì	54		27 Mar (86)	5 Thur	147 7767	4445

					CONC	JRRENT 1	EAR		
		ruma.	solar year in				Jovian ^c a	A BAFTAVŘ	Mean interculated (adhika) lunur
Kalı	Śaka	Chatridi Vıkrıma.	Marting solur	Rengal.	Kollam	A D.	Southern system	Northern system	montb.
1	2	3		3a	4	5	8	7	8a
4445	1267	1		751	519-20	*1344-45	18 Tārana .	24 Vikrita	0.1/5(
4117	1268			752	520-21	1345-46	19 Pärthiva	25 Khara	9 Mārgašīra .
4448	1269	1 -	04	753	521-22	1346 47	20 Vyaya .	26 Nandana	
4449 4450	127	- 1	105	754	522-23	1347-49 *1348-49	21 Sarvajit 22 Sarvadbārin	27 Vijaya 28 Jaya	6 Bhādrapada
4451	127	_	196 107	755 756	523-24 524-25	1349-50	22 Sarvadgarin 23 Virodhin	29 Manmatha	o Baarapaca
4452	127		403	757	525-26	1350-51	21 Vikrita	30 Durmulha	
4453		` <b>\</b>	409	758	526-27	1	25 Khara	31 Hēmalamba	2 Varéākha
4454	12	75 1	410	759	1		i	. 32 Vilamba	
4455	12	76 ]	L411	760	528-29	1353-54	27 Vijaya	33 Vikāmn	11 Mágha .
4456	3   12	77	1412	761	529-30	1354-55	28 Jaya .	34 Śārvarın	
445	7   12	78	1413	762	530-3	1355 56	29 Manmatha	35 Plava	
415	-	279	1414	76:	3 531-3	2 *1356-57	30 Durmukha	36 Śubhaknt	7 Āśvina
445	-	- }	1415	76		3 1357-59	31 Hēmalamba	37 Śōbhana	
41 ⁹ 41 ⁹	_   _	281	1416	1	1	-		. 38 Krődhin .	
44	· [	282	1417 1418	1			0 33 Vilárin	39 Viśvāvasu	4 Āshādha
	- 1	1284	1419	1	57   535-1 58   536-1	1		. 40 Parābhava	
41		1285	1420	1	69 527-			41 Plavanga 42 Kilaka	12 Phālguna
4	165	1255	1421	1	70 538-		1	. 43 Saumya	
4:	r6	1287	1425	2 7	71 539		1	44 Sādhārana	9 Mārgašira
	457	1255	142	3 7	72 540-	41 1365-6		45 Virödbakrıt	
	193	1299	142		73 541-	42 1366 (	67 40 Parabhava	46 Paridhāvm	
	459 470	1290	142		74 542	43 1367-	68 41 Plavanga	47 Pramādin	. 5 Stārana
200	*10	1291	142	5 7	75 543	44 *1368	69 42 Kīlaka	18 Ananda	

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	(	COMA	IENC	EM.	ENT OF THE			
Mean	SOLAR TFAR,				Mean Luni solar y Civil day on Whic	eab (Mean su h Chaitra su	INRISE OF THE	Kalı
Day and month, A D.	Week day	mean	ıme o n Mêi hkrür	ha	Day and month, A D	Week-day	a (here=t, the index of the tithi)	
18	14		17		19	20	28	1
28 Mar (86)	6 Fri	H 18	M 6	S 45	15 Mar (75) .	2 Mon.	23 4995	444
27 Mar (86)	1 San	0	18	54	5 Mar (61) .	O Sat	287 8548	444
27 Mar (86) .	2 Mon.	6	31	3	24 Mar (83)	6 Fri .	272 5867	444
27 Mar (86)	3 Tues.	12	43	12	18 Mar. (72)	3 Tues .	148 2595	444
26 Mar. (86)	4 Wod.	18	55	21	1 Mar (61)	0 Sat.	28 9824	445
27 Mar. (86) .	6 Fri	1	7	80	20 Mar (79)	6 Fri .	58 8648	445
27 Mar. (86)	0 Sat	7	19	89	10 Mar (69) .	4 Wed .	1	448
27 Mar (86)	1 Sun	13	31	48	27 Feb (58) .	1 San .	148 7424	445
26 Mar (86) .	2 Mon	19	48	57	17 Mar (77)	0 Sat	189 4248	448
27 Mar (86)	4 Wed	1	56	в	6 Mar (65) .	4 Wed .	59 1477	448
27 Mar (86)	5 Thur	8	8	15	25 Mar (84)	3 Tues .	93 8300	44
27 Mar. (86)	6 Fri	14	20	24	15 Mar (74) .	1 San	808 1849	44
26 Mar. (86) .	0 Sat	20	32	88	8 Mar. (63) .	5 Thur .	1	441
27 Mar (86)	2 Mon	2	44	42	22 Mar (81) .	4 Wed .	218-5902	44
27 Mar. (80) .	- 8 Tues	. 8	56	51	11 Mar. (70) .	1 Sun .	94 3129	440
27 Mar. (86)	4 Wed	.   15	9	0	1 Mar. (60)	6 Fri	808 8678	440
28 Mar (88) .	5 Thur.	. 21	21	9	18 Mar (78) .	4 Wed	4 7182	44(
27 Mar (86) .	0 Sut	8		18	8 Mar (67) .	2 Mon	219 0780	44
27 Mar (88)	1 San	. 0	45	27	27 Mar (86)	1 Sav .	258-7554	44
27 Mar (\$6)	2 Moa.	.   15	57	86	16 Mar (75)	5 Thur	129 4788	44
26 Mar (86)	3 Taes.	22		45	4 Mar (64)	2 Mon	5 2011	44
27 Mar (86) .	5 Thur	. 4		54	23 Mar (82)	1 Sun .	39 8835	44
27 Mar. (86) .	6 Fri	. 10	84	8	18 Mar (72) .	6 Fra .	254.2883	44
27 Mur (86) .	0 Eat	. 18		12	2 Mar (61) .	3 Tues .	129 9812	61
26 Mar (86)	. 1 Fgn	. 22	84	21	20 Mar. (80)	2 Mon	164-8435	52

					C	NCUB	RENT YE	AB	_		
				your in				JOVIAN SA	м	VATSARA	Mean intercalated (adhika) lunar
Kalı.	Śaki	2	Chattridii Vakrams.	Mishādı solar Bongal	Kol	am	A.D	Sonthern system		Northern system	month
1	2	_	3	8a		4	5	в	1.	7	8a
4471	125	92	1427	776	54	4-45	1369-70	43 Saumya		49 Rākshasa	. 4
4472	12	93	1428	777	54	5-46	1370-71	44 Sādhārana		50 Anala .	2 Varšākha
4478	12	94	1429	778	3 54	6-47	1371-72	45 Virodhakrit	•	51 Pıngala	
4474	12	95	1430	779	54	7-48	*1372-73	46 Parıdhāvın	-	52 Kālayukta .	10 Pausha
4475	15	96	1431	78	0   5	18-49	1373-74	47 Pramādın	٠	53 Siddhärthin .	•
4476	15	297	1432	78	1   5	49 50	1374-75	48 Ananda .		54 Raudra .	
4477	1	298	1433	1		50-51	1375-76	49 Rākshasa	•	55 Durmati	7 Aśvina
4476		233	1434			51-52	*1376-77	50 Anala	•	56 Dundubhi . 57 Rudhirödgärin	
447 448		.800 L201	1435	}	1	552-53 553-54	1377-78 1378-79		•	57 Rudnitougarin 58 Raktāksha	3 Jyështha
448		1802	}			554-55	1379-80	1	•	59 Krödhana	,
448	32	1803				555-56	*1880 81	1		60 Kshaya	12 Phālguna
44	33	180	143	9 7	88	556-57	1381-82	55 Durmatı		1 Prabhava	
44	84	120	5 144	ю	789	557-58	1382-88	56 Dundubhi		2 Vibhava	
44	85	130	6 14	11	790	558 59	1383-8	57 Rudhırödgäri	n	3 Śukla	9 Mārgasīra
	186	180	1	- }	791	559-60	1	58 Raktāksha	•	4 Pramōda	
	487 499	180	1	- {	792	560 61	ŧ	1	•	5 Prajāpati	1
	489	13		- 1	793	561-62	1		•	6 Anguras	5 Śrāvana
	N50	1	1	146	794 795	562-68 563-6	1	•		7 Śrimukha 8 Bhāva	
4	<b>1</b> 491	1	1	147	796	584-6		l l		9 Yuvan	2 Varšākha
	4402	18	18 1	448	797	565-6	1			10 Dhātpı .	
	4493	1	- 1	410	708	586-6	7 1391-	92 5 Prajšpati		. 11 Isvara .	10 Pansha
	4494	4	}	450	799	567-6	1			. 12 Bahudhānya	
	405		316	451	800	568 t	iy 1393-	94 7 Srimukha		. 13 Pramāthin	

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				сом	MEN	CEI	ient of the	<del></del>			1
	Mean	SOLAR YE.	AB							SUNTISE OF THE SUKLA 1 BhDS)	Kalı.
Day and A l		Wook-da	a y	mor	ľime in M mkrá	ēsha-	Day and mon	itb,	Wock-day	a (here=t, the index of the tithi)	1
1:	3	14		-	17		19		20	23	1
27 Mar (8	R)	3 Tues		н.	M 10	.S 30	9 Mar (68)		6 Fri	40 3684	4471
27 Mar (8		4 Wed		11	22	89	27 Feb (58)	•	4 Wed	254 7212	4472
27 Mar (8	•	5 Thur	٠	17	34	48	18 Mar (77)	•	3 Tues.	289 4036	4478
26 Mar (8		6 Fri		23	46	57	6 Mar (66)		0 Sat.	. 165 1264	4474
27 Mar (8		1 Sun		5	59	в	25 Mar (R4)		6 Frì.	199 8088	4475
27 Mar (8	_ ( )	2 Mon		] ] 12	11	15	14 Mar. (73)		8 Tues,	. 75 5817	4476
27 Mar (8	6)	3 Tues		18	23	24	4 Mar (63)		1 Sun	289 8864	4477
27 Mar (8		5 Thur		0	85	33	22 Mar (82)		0 Sat.	824 5680	4478
27 Mar (8	6)	6 Fr.		6	47	42	11 Mar (70)		4 Wed.	200 2917	4479
27 Mar (8	6) .	0 Eat		12	<b>59</b>	51	28 Feb (59)	i	1 bun	76 0146	4480
27 Mar (8	6)	1 San		19	12	0	19 Mar (78)		0 Sat.	110 6969	4481
27 Mar (8	7)	3 Tnes.		1	24	9	8 Mar (68)		5 Thur.	825 0518	4482
27 Mar (8	6) .	4 Wed.		7	36	18	26 Mar (85)	- 1	3 Tues.	21 1022	4488
27 Mar (8	6)	5 Thur.	•	18	<b>4</b> 8	27	16 Mar (75)	- 1	1 Sun	235 4571	4484
27 Mar (8	<b>6</b> )	6 Fr	•	20	0	36	5 Mar (64)		5 Thur.	111 1798	4485
27 Mar (8	7)	1 Sun	•	2	12	45	23 Mar (88)	$\cdot$ ]	4 Wed.	145 8623	4486
27 Mar (8	6)	2 Mon.	٠	8	24	54	12 Mar (71)	Ì	1 5un .	21 5851	4487
27 Mar (8	<b>6</b> )	3 Tues		14	37	8	2 Mar (61)	1	6 Fr1	285 9899	4488
27 Mar (8	6) .	4 Wed		20	49	12	21 Mar (80)		5 Thur .	270 6223	4489
27 Mar (8	7)	6 Fm	٠	3	1	21	9 Mar (69)		2 Mon	146 3452	4490
27 Mar (8	6)	0 Eat		9	13	80	26 Feb (57)	$\cdot$	6 Fm .	22 0680	4491
27 Mar (8	6) .	1 San	•	15	25	89	17 Max (76)		5 Thur .	56-7503	4498
27 Mar (8	6) .	2 Mon	٠	21	87	48	7 Mar. (66)	1	3 Ines .	27] 1052	4493
27 Mar (8	7)	4 Wed		3	49	57	25 Mar (85)		2 Mon	805 7876	4494
27 Mar (8	6)	5 Thur	•	10	2	6	14 Mar (78)		6 Fri	181 5104	4495

				CONC	CURRENT	YEAR					
		razzo	yor m			Jovian Sa	MVATSARA	Mean intercalated (adhika) lunar			
Kalı	Śaka	Chattrādi Vikrama	Mëshūdi solar Beng 11	Kollam	A D	Southern system	Northern system	month			
1	2	3	3a	4	5	6	7	Sa			
<b>44</b> 96	1317	1452	801	569-70	1394-95	8 Bhāva .	14 Vikrama	7 Asvins			
4497	1318	1453	802	570-71	1395 96	9 Yuvan	15 Vrisha .				
4198	1319	1454	803	571-72	*1396-97	10 Dhātri .	16 Chitrabhanu				
4499	1320	1455	804	572-73	1397-98	11 Isvara	17 Subhānu	3 Jyështha			
4500	1321	1456	805	573-74	1398-99	12 Bahudhānya .	18 Tārana .	.[			
4501	1322	1457	806	574-75	1399-14/30	13 Pramāthin	19 Pärthiva	12 Phälguna			
4502	1323	1458	807	575-78	*1400-01	14 Vikrama .	20 Vyaya .				

# XC-concld

	COMMUNCE	MEN	T OF THE				
Neav	SOLAR TEAR		Mpan Luni 80. CIVIL DAY ON	Kali			
Day and month,	Week-day mean Me samkrān	sha-	Day and mon	tb,	Week-day	a (here=t, the index of the teths)	
13	11 17		19		20	23	1
27 Mar (86) 27 Mar (86) 27 Mar (87)	0 Sat. 22 26 2 Mon . 4 38		3 Mar (62) 22 Mar (81) 11 Mar (71) 28 Fob (59)		8 Tues . 2 Mon 0 Sat . 4 Wod	57 2333 91 9157 305 2704 181 9933	4496 4497 4498 4499
27 Mar (86) 27 Mar (86)	4 Wed 17 2 5 Thur . 23 15	51	19 Mar (78) 8 Mar (87)		8 Tues . 0 Sat.	216 6757 92 3086	4500 4501
27 Mar (87)	0 Sat 5 27		26 Mar (86)		6 Fri	127 0810	4502

#### TABLE XCII

#### CENTURY-TABLE.

Value of a = t at beginning of claturies KY, 16. At mean surfise on day of occurrence of mean Mesha-sameranti (mean sun at 0°) in first year of century. [Centuries 38, 44, were defective, the rest common]

Beginning of K Y century	Beginning in A D	Week- day	a_(== t)
37 38 39 40	599 699 799 899	(O) (O) (6) (6)	6228 4770 5100-3761 3633 6433 2505 5425
41 42 43 44 45	999 1099 1199 1299 1399	(6) (6) (6) (6) (6) (5)	1377 4416 249 3408 9121 2399 7993 1391 6526 4068

For odd years of centuries use the Siddhanta-Śiromani Table LVII-B (above, Vol XV)

TABLE XCIII

MEAN SUNRISE VALUES OF a (DISTANCE OF IMEAN MOON FROM MEAN SUN) IN 10,000 THE OF CIRCLE FOR A MONTH PREVIOUS TO THE DAY ON WHICH MEAN MESHA-SAMKRANTI OUCCURRED

Interval of days from mean Mēsha- samkrāntı day	Week- day	a (mean sunrise value)	Interval of days from mean Mēsha- samkrānti day	Week- day	a (mean sunriso value)
1	2	3	1	2	8
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17	(4) (5) (6) (0) (1) (2) (3) (4) (5) (6) (0) (1) (2) (3) (4) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	9502 4085 9841 0404 179 6724 518 3044 856 9364 1195 5684 1634 2004 1872 8324 2211 4643 2550 0963 2888 7283 3227 3603 3665 9923 3904 6243 4243 2563 4243 2563 4581 8582	15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	(5) (1) (3) (4) (5) (5) (1) (2) (4) (5) (6) (6)	4920 5202 5259 1522 5597-7842 5936 4162 6275-0482 6613 6801 6952 3121 7290 9441 7629 5761 7968 2081 8306 8401 8645 4721 8984 1040 9322-7360 9661 3680 0-0

The use of this Table is explained in Example 2 of this article, and in Example 1 of article on the First Árya-Siddnānta, mean system (above, Vol XVI).

## TABLE XCIV.

Time-equivalents of the tithi (a or t), nakshatra (n), and roga (y) units.

In very close cases it is sometimes necessary to calculate the exact moment of the beginning and ending of tithis, nakshatras and yōgas, with greater accuracy than can be obtained by the use of Table X, Indian Calendar, or Table LXX (above, Vol. XVI, p. 216), where the time-equivalent of the unit, respectively, is given only in hours and minutes. My general working Tables for several of the Hindu astronomical Siddhāntas already published yield results, stated in measurement by 10,000ths of the circle, with an accuracy extending to four places of decimals, and the following Table enables the result to be translated into time down to a fraction of a second. It may be used for all astronomical authorities

#### The tithi-index unit

The tithi-unit is 15,555th of a mean lunation. The mean lunation, according to the Aryand Sūrya-Siddhāntas, occupies 29d 12h 44m 2 79. The unit, or 10,000th part of this, is 4m 2524046, or 4m 15 144279

#### The nakshatra-index unit

The moon's nakshatra, or her position in the heavens, mean or true, is found by adding the tithi-index, a or t, to the index of the sun's longitude, s, mean or true Both these values are found in the ordinary course of calculation for a date

The mean nakshatra-vatue n = 10,000 is reached in 27d 7h 43m 12s 3. In this period the sun's mean motion amounts, in 10,000ths of circle measurement, to 748 0087 (Table XLIV above (Vol. XIV)) and the moon's mean distance from mean sun increases (Table LIV A, B (Vol. XV)) to 9251 9913. Total 10,000

 $27^d$   $7^h$   $43^m$   $12^s$   $3=39343^m$  205, and this divided by 10,000 fixes the time-equivalent of the nakshatra-unit as  $3^m$  9343205, or  $3^m$  56° 05923

## The yoga-index unit

Similarly the  $y\bar{o}ga$ -chakra is estimated by the  $S\bar{u}rya$ - $Siddh\bar{a}nta$  (Indian Calendar, p 62, § 113) as occupying 36605116 minutes of time, or  $25^d$  10^h  $5^m$  6° 96 ¹ The  $y\bar{o}ga$ -unit therefore is  $3^m$  6605116, or  $3^m$  39° 6307

The yoga formula is y=s (sun's long) + n (moon's nakshatra), and, since n=s+a, y=2s+a In the period noted it will be found by calculation, using Table XLIV (above, Vol XIV), that the mean sun s arrives, in 10,000ths of circle measurement, at long 695-9511, and by using Table LXIV (Vol XVI) that in the same period the mean moon has increased her distance from mean sun (a) by 8608 0964. Twice s=13919022, and this + 8608 0964 (the value of a) = 9999-9988, practically 10,000 exactly Table LXIV was prepared according to the First Arya-Siddkānta Using Siddhānta-Śirōmani and Brahma Siddhānta estimates (Table LIV) the total amounts to 10,000-0015, I have as yet to similar Table according to Sīrýa-Siddhānta requirements, but from what has been said it may be assumed that its estimate of the time occupied by one yōgo-chakra (=10,000) is correct.

TABLE XCIV-A.

TIME-EQUIVALENTS

TITHI-INDEX UNITS

(" Arg "= a or t.)

Arg	H	М	s.	Arg	H	M	8	Arg	I	1	M S	Arg	)	Ĥ	M S
1	0	\$	1511	30	2	7	8* 33	59	4	l 10	58 51	88		6 1	4 1270
2	0	8	30 29	31	2	11	49 47	60	4	16	87	89	1	8 1	8 27 84
3	0	12	45 43	32	2	16	4 62	61	4	19	23 80	90	1	3 2	<b>3 42 99</b>
4	0	17	0 58 -	33	2	20	19-76	62	4	23	38 95	91	6	2	6 58 18
5	0	21	15 72	34	2	24	84 91	63	4	27	54 09	92	6	8	l 1327
6	0	25	30 87	35	2	28	50 05	64	4	82	9 23	98	6	38	28 42
7	0	29	46 01	36	2	33	5 19	65	4	36	24 38	94	6	89	43 56
8	0	31	1 15	37	2	37	20 34	66	4	40	89 52	95	6	49	58-71
9	0	38	16 30	88	2	41	85 48	67	4	44	<b>54</b> 67	96	6	48	18 85
10	0	42	31 44	39	2	45	50 <i>6</i> 8	68	4	49	9 81	97	6	52	29 00
11	0	46	46 59	40	2	50	5 77	69	4	53	24 96	98	6	56	44 14
12	0	51	1 73	41	2	54	20 92	70	4	57	40 10	99	7	0	<b>59 28</b>
13	Ð	55	16 88	42	2	58	36 06	71	5	1	55 24	100	7	5	14 43
14	0	59	<b>32</b> 02	43	3	2	51 20	72	5	6	10 89	200	14	10	28 86
15	1	3	47 16	44	3	7	6 35	73	5	10	25 53	800	21	15	43 28
16	1	8	2 31	45	8	11	21 49	74	5	14	40 68	400	28	20	57.71
17	1	12	17 45	46	8	15	36 64	75	5	18	55 82	500	85	26	12 14
18	1	16	32 60	47	8	19	51.78	76	5	23	10 97	600	42	81	26 57
19	1	20	47 74	48	3	24	6 93	77	5	27	26 11	700	49	36	41 00
20	1	25	2 29	49	3	28	22 07	78	В	81	41 25	800	56	41	55 42
21	1	29	18 03	50	3	<b>32</b>	37 21	79	5	35	56 40	900	63	47	9 85
22	1	33	33 17	51	3	86	52 36	80	5	40	11 54	1000	70	52	24 28
23	1	37	48 32	52	3	41	7 50	81	5	44	26 69	1			
24	1	42	3 46	58	8	45	22 65	82	5	<b>48</b>	41 83				
25	1	48	18 61	54	8	49	87 79	83	5	52	56 98				
20	1	50	33-75	55	3	58	52 94	84	Б	57	12 20		'		
27	1	54	48 90	56	8	58	8 08	85	6	1	27 26				
28	1	59	4 04	57	4	2	23 22	86	6		42 41				
29	2	3	1918	58	4	6	88 37	87	6	9	57 55				

## TABLE XCIV-B

### TIME-EQUIVALENTS

### DECIMALS OF TITHI-INDEX UNITS

First 2 docuvals	M S	First 2 documents.	M S.	First 3 docimals	м в
·01	Ó 255	34	1 26-75	67	2 50.95
02	0 510	35	1 29 30	-68	2 53 50
-03	0 765	36	1 31 85	69	2 56 05
-04	0 1021	37	1 84 40	•70	2 58 60
05	0 12-76	38	1 86-95	71	3 1.15
•06	0 15 31	89	1 39 51	-72	3 3.70
-07	0 17.88	40	1 42.08	73	3 6 26
•03	0 2041	41	1 44 61	74	3 881
09	0 22-96	42	1 47 16	-75	3 11 36
10	0 25 51	43	1 49.71	-76	8 13-91
11	0 28 07	44	1 52 28	77	3 16 46
12	0 30 82	45	1 54 81	78	3 19 01
•18	0 33 17	46	1 57 37	79	8 21 56
14	0 35-72	47	1 59-92	80	3 2412
15	0 88 27	48	2 247	81	8 26 67
10	1	49	2 5.02	82	3 29 22
17			2 7 57	83	8 31-78
•18		51	2 10-12	84	8 84 32
1		1	2 12-68	85	3 36 87
2			1	88	3 39 42
•2				1	8 41-98
	22 0 58 1		i .	1	8 44 53
	23 0 58 0 24 0 61				3 47 08
	1		_, _,		1
	I		9 2 80-5 0 2 88 0	1 -	0 0 1 7 3
	1 ~	1			
	1		32 2 38 1 33 2 40-7		
			34 2 43 2		
	32 1 21	_ 1	35 2 45 8		
	33 1 24		86 2 48		1
<b>*</b>		<u>_</u> _		1	12 03

3rd and 4th decimals	s	3rd and 4th decimals	£	3rd and 4th decimals.	\$
•0001	0-03	-0034	0 87	-0067	171
-0002	0 05	-0035	0.89	0068	1.73
0003	0-03	-0036	0 92	-0069	1.76
0004	0 10	0037	0.94	0070	179
0005	0-13	0038	0-97	·0071	1.81
0008	0 15	0039	1.00	-0072	1.84
-0007	0 18	-0010	1.02	-0073	1 56
0003	0 20	-0011	105	0074	1 89
-0009	0 23	0012	1 07	0075	1.91
0010	0 26	0013	1 10	-0076	1-94
0011	0 28	0014	1 12	0077	1-96
0012	0 31	0045	115	-0078	1-99
-0013	0 33	-0016	1 17	-0079	2 02
0014	0 36	0047	1 20	-0080	2.04
0015	0 38	-0018	1 22	-0091	2.07
•0016	0 41	0049	1.25	0082	2.09
0017	0 43	-0050	1 28	-0083	212
0018	0 46	-0051	1 30	-0034	214
0019	0 48	0052	1 33	-0035	2 17
-0020	0-51	-0053	1.35	-0096	2 19
0021	0 54	0054	1 38	-0087	2 22
0022	0 56	0055	1 40	0058	2 25
0023	0 59	0056	1 43	0099	2 27
0024	061	0057	1 45	0090	230
0025	0 64	0058	1 48	-0091	232
0026	0.68	0059	1 51	0092	2 3 5
0027	0 69	-0060	1 53	0093	2 37
0028	071	0061	1 56	0094	2 40
0029	074	0062	1 58	0095	242
0030	077	0063	1 61	0096	2 45
0031	0.79	1	1 63	0097	2 47
0032	0 82	1	1 66	-0098	2 50
0033	0 84	0066	168	0099	252

## TABLE XCIV-C.

## Time-houivalents

#### NARSHATRA-INDLX UNITS

Arg.	н м ѕ	Arg	н м ғ	Arg	H M S	Arg	нм я
1	0 3 56 06	31	2 1 57 84	61	3 59 59 61	91	5 58 139
2	0 7 52 12	82	2 5 53 90	62	4 3 55 67	92	6 1 5745
3	0 11 49 18	83	2 9 49 95	63	4 7 51 73	98	6 5 53 51
4	0 15 44 24	34	2 13 46 01	64	4 11 47 79	94	6 9 49 57
5	0 19 40 30	35	2 17 42 07	65	4 15 43 85	95	6 13 45 63
6	0 23 36 36	36	2 21 38:13	66	4 19 8991	98	6 17 41 69
7	0 27 32 41	37	2 25 34 19	67	4 23 35 97	97	6 21 37 75
8	0 31 28 47	38	2 29 30 25	68	4 27 82 03	98	6 25 33 80
0	0 35 2153	39	2 33 26 31	69	4 31 28 09	99	6 29 29 86
10	0 39 20 59	-40	2 37 22 37	70	4 35 2415	100	6 83 25 92
11	0 43 16 65	41	2 41 1843	71	4 39 20 21	200	13 6 51.85
12	0 47 1271	42	2 45 1449	72	4 43 16 26	300	19 40 1778
18	0 51 8-77	43	2 49 10 55	78	4 47 12 32		
14	0 56 483	44	2 53 661	74	4 51 838		
15	0 59 089	45	2 57 267	75	4 55 414		
16	1 2 56 95	46	3 0 5872	76	4 59 050		
17	1 6 53 01	47	8 4 5478	77	5 2 56 56		
18	1 10 49 07	48	8 8 50 84	78	5 6 52 62		
19	1 14 45 13	49	3 12 46 90	79	5 10 48 68		
20	1 18 41 18	50	3 16 42 96	80	5 14 4474		
21	1 22 87 24	Б1	3 20 89 02	81	5 18 40 80		
22	1 26 88 30	52	3 24 35 98	82	5 22 86 86		
23	1 80 29 38	58	3 28 31 14	88	5 26 82 92		
24	1 84 25 42	54	8 32 27 20	84	5 30 28 98		
25	1 88 2148	55	3 36 23 26	85	5 34 25 08		
28	1 42 17 54	58	8 40 1932	86	5 38 21 09		
27	1 46 13-60	57	8 44 15 38	87	5 42 17.15	-	
28	1 50 - 986	58	8 48 11 44	88	5 46 13 21		
29	1 54 572	59	8 52 749	89	5 50 927		
86	1 58 1.78	8n	8 56 8 55	90	5 54 6 88		

# TABLE XCIV-D.

Time-equivalents,

# DECIMALS OF NAFSHATEA-INDEX UNITS.

							===			===,	
tinit in its	V	e	First 2		<b>y</b> '	ë	Flrat 2	decimals	M	s	
Ci	0	2.0	24		1	മാമ	1	67	2	35 16	
472	0	472	23	5	1	22-62	-	68	2	40 52	
450	0	7415	3'	5	1	21-79		r9 \	2	42 88	
44	ŋ	1 41	3	7	1	27 31		70	2	45 21	
4.5	0	1163	4	5	1	2:70		71	2	17 60	
-14	O	1416	٠,٠	, l	1	32-05		72	2	49-26	
~7	6	27 12	4	0	1	31 12		73	2	52 32	
af an	,,	Ju-45	1	1	1	30 78		74	2	5168	
~ "	n	21 27	,	2	1	90 15		75	2	57 01	
in	r.	27-71	4	٦	1	41 51		76	2	50 10	
31	0	2009	1	\$	1	13 67	1	77	3	1 77	
12	ę,	25 73	4	5	1	46 23	1	78	3	4 13	
14	0	145	4	S	1	15 20		79	3	6 19	
14	1	7 95	,	17	1	50-55	1	S0	3	8 85	1
**	10	5" 41		54	1	10-31	1	-81	3	11 21	
1,	٠, ا	1 27 77		\$7	1	65-67		·62	3	13 57	
17	4.	) 4 Jn	1	٢١	1	26.63		-53	3	15-93	
1-	í	45 17		1	2	1.44	1	51	3	15 23	
;	ŧ	D 41		22	1	27:	1	-62	3	29-65	
*	Ţ	9 47 21	1	** *	1:	2 617		-5%	3	23 01	1
7	į.	8 4° 5°	1	::	1	2 5 1	7	47	1:	25 37	1
4	- 5	5 514	1	-	l	± 05	- 1	44		3 27-73	
	,	121 7	- 1	• •	1	2 121	1	-E-1	1	3 30-16	٠ ]
	;	م فريع : بد ر	1			2 142	- 1	إمراض	- {	a .5 (2	•
	- ; ;				- {	2 17 .	1	4.1	•	3 3157	٠,
	2 }	1 1	_		4	2 17/		، مر	•		
	*	, • ;		•	7. 1	± 50°		*.	- 1	3 2 2	1
	Mark C		٨."	4				e 1		~ 41~	3
		122						*3 *	APP.	2 442	7
	3, 6 ,, 18					; ; ;:	- 1		-	3 4.	
	\$ \$ \$4.45						15	0.1	* " " " " " " " " " " " " " " " " " " "	3 ·10	
	• •	7 **	. ]	*	*	2 5	4.1	,		2 (1)	- 1
4	Fajor	~		aldo gan	ranage d	~ ~			<u> </u>		

	d and 4th cimals	s	3rd and 4th decimals	E	3rd and 4tn documals	s.	
	0001	0.02	0034	0 80	0067	1 58	
	0002	0 05	0035	0 83	8600	1 61	
	0003	0 07	-0036	0 85	0069	3 63	
•	0004	0 03	0037	0 87	0070	1 65	
	0005	012	-0038	0 90	0071	1 68	
	0006	014	-0039	0-92	0072	1 70	
	0007	0.17	0040	0 94	0073	1 72	
	0003	0.19	-0041	0 97	0074	1 75	
	0000	0 21	-0012	0.00	0075	177	
	0010	0 21	0013	1 02	0078	1.79	
	0011	0 26	-0014	101	0077	1 82	
	0012	0 28	0045	1.06	0078	1.84	
	0013	0 31	0046	1 09	0070	186	
	001 \$	0 33	0017	111	0080	1 89	
	0015	0 35	-0018	113	-0081	191	
	0016	0 38	0019	1 16	0052	194	
	-0017	0.40	0050	1 18	0093	1 98	
	0018	0 42	0051	120	-0084	1 98	
	9019	0.45	-0052	1 23	-0095	201	
	-0020	0-17	0028	1 25	0096	2 03	
	0021	0 50	0054	1.27	-0057	205	
	-0022	0 52	0055	1 30	0058	2 08	
	-0023	0.51	-0026	1 32	-0089	210	
١	-0024	0-57	0057	1.35	-0000	212	
١	-0025	0-59	-0055	1 37	-0071	2 15	
1	10025	O-G1	-0050	1 33	-0072	217	
1	-0027	0-64	1	1 12	60013	2 20	
1	6023	0.00	1	1 41	100011	2 22	
-	48720	0.49	1	140	1	224	
1	0130 0-71		1	1 49	1	2 27	
1	vei	07.		1 1		2 20	
1	4 12 4 4 12	<b>1</b>	1	117		231	
1	V-62.	07	ave	1 13	2 ONO	5.04	

TABLE XCIV-E.

## TIME-EQUIVALENTS.

#### YOGA-INDEX UNITS.

Arg	н,	M.	s	Arg	н	M	s	Arg	н	M	. s	Arg	н.	M	S.
1	0	8	39°68	81	1	58	28 55	61	8	48	17 47	91	5	88	6.33
2	0	7	19:26	32	1	57	8 18	62	8	46	<i>5</i> 7 10	92	5	86	46 02
8	0	10	58.89	33	2	0	47 81	68	3	50	86 73	98	5	40	25 65
4	0	14	38.52	34	2	4	27.44	64	3	54	16 36	94	Б	44	5 29
ь	ø	18	18.15	35	2	8	7 07	65	8	57	56.00	95	5	47	44.92
6	0	21	57.78	36	2	11	46.71	66	4	1	85.68	96	5	51	- 24 55
7	0	25	37.41	87	2	15	26 34	67	4	5	15 28	97	5	55	4.18
8	0	29	17 05	88	2	19	5 97	68	4	8	54 89	98	5	58	43.81
9	0	82	56.68	89	2	22	45 60	69	4	12	84 52	99	6	2	23.44
10	0	86	86.31	40	2	26	25 23	70	4	16	14 15	100	6	6	3 07
11	0	40	15-04	41	2	80	4 86	71	4	19	53.78	200	12	12	6.14
12	0	48	55.57	42	2	88	44 49	72	4	23	38 41	800	18	18	9 21
13	0	47	85 20	43	2	87	24 12	78	4	27	18 04				
14	0	51	14 83	44	2	41	3 75	74	4	80	52 87				
15	0	54	54 46	45	2	44	43 88	75	4	84	82 80				
16	0	58	84 09	46	2	48	23 01	76	4	88	11 98				
17	1	2	1872	47	2	52	2 64	77	4	41	51 58				
18	1	5	58 85	48	2	55	42 27	78	4	45	81 19				
19	1	9	<b>32</b> 98	49	2	59	21 90	79	4	49	10 83				
20	1	18	1261	50	8	8	1 53	80	4	<b>52</b>	50 46				
21	1	16	52 24	51	8	6	41 17	81	4	56	30 09				
22	1	20	81 88	52	3	10	20 80	82	5	0	9 72				
23	1	24	11 51	58	3	14	0 48	88	5	8	49 85				
24	1	27	51 14	54	8	17	40 08	84	5	7	28 98				
25	1	81	80 77	55	8	21	19 69	85	5	11	8 81				
26	1	85	10 40	56	8	24	59 32	86	5	14	48 24				
27	1	38	50 03	57	3	28	88 95	87	5	18	27 87		`		
28	1	42	29 88	58	я	82	18 58	88	5	22	7 50				
29	1	46	9 29	59	8	35	58 21	89	5	25	47 18				
80	1	49	4& 92	60	3	89	87 84	90	5	29	28-78				

## TABLE XCIV-F

## TIME-FQUIVALINTS

### DECIMALS OF YOGA-INDEX CNITS

First 2 decimals	M. S.	First 2 decimals	М.	ន	First 2 documals.	М	8
01	0 220	34	1	14 67	-67	2	27 15
02	0 439	•35	1	16 87	-68	2	29 35
-03	0 6 59	36	1	19 07	-69	2	31 55
-04	0 8.79	37	1	21 26	70	2	33-74
-05	0 10-98	38-	1	23 46	-71	2	35 94
-06	0 1318	-89	1	25 66	-72	2	88 13
•07	0 15 37	40	1	27-85	73	2	40 33
-08	0 17 57	41	1	30-05	74	2	42 53
-09	0 19-77	42	1	32 24	-75	2	4472
•10	0 21.96	43	1	84 44	-76	2	46-92
11	0 2416	44	1	36-64	777	2	49 12
12	0 28 8	45	1	88 88	78	2	51 31
•13	0 28 5	48	1	41.03	79	2	58 51
14	0 80-7	5 47	1	43 23	80	2	55-70
•15	0 82-9	4 48	1	45 42	·81	2	57-90
16	0 351	4 49	1	47 62	82	8	0-10
17	0 878	4 .50	1	49 82	-83	3	2 29
-18	0 89 5	8 .21	1	<b>52 01</b>	-84	3	4.49
19		8 52	1	54 21	*85	8	6-69
•20		53	1	56 40	86	8	8 88
21	1	12 54	1	<b>-58 60</b>	87	8	11-08
•21			2	0-80	88	18	13 28
2:			1	2 99	89	8	15 47
2	1		1	5 19	190	8	17-67
·2 2				7 89	-91	3	19.86
-2			1	. 0 0Q		3	22.06
•2		80 -80				3	24 28
		50 81	ı			1	26 45
	1	69 6: 89 6:	- 1		1	- 1	28 65
	30		- 1		1	1	_
	1	28 -6		20.56	4		
		48 -6	- 1	2 22·7( 2 24.9(			
=			1	2 24.8	3 98	18	3 87 43

Brd and 1th decimals	g	3-1 and 4-h decurate	۶	Ird an I 4st, decinals	
-0001	0-02	.003\$	078	9057	1 17
-0002	0.01	-0015	077	-0059	1,0
-0003	0-07	-0030	070	-0000	1 72
10004	0.00	*0037	0.51	0)70	154
0005	011	0035	083	-0071	136
-0006	013	0039	086	-0072	1.79
-0007	0 15	-0010	0.88	-0073	100
-0003	0 18	0011	0.50	-0071	173
-0000	0 20	0032	0.02	-0075	1.65
0010	0 22	•0013	0:21	0276	1 67
-0011	0 2 3	0014	0 97	-0077	1-69
-0012	0 26	0715	0-27	0078	1.71
-0013	0 29	-0016	1 01	0072	174
-0014	0 31	-0047	1-03	0080	176
0015	0.33	0019	1 05	-00 <del>5</del> 1	1.78
0016	0 35	0049	1-09	-0092	1 80
-0017	0 37	-0050	1 10	0093	1 52
-0018	0 40	0051	1 12	0081	181
0010	0 12	0032	114	-0085	1 57
-0020	0 44	0053	1 16	0056	1 39
0021	0 46	0051	1 19	-0057	1 91
0022	0 48	0055	1 21	0088	1-93
0023	0 51	0058	1 23	0039	1 95
10024	0.58	0057	1 25	0090	198
•0025	0 55	0058	1 27	0091	2 00
0026	0 57	0059	130	0092	2 02
-0027	0.59	0000	1 32	0003	201
0028	0 61	0061	1 34	-6031	2 06
0029	0 64	0062	1 36	0095	2.00
•0030	0 86	6900	138	0026	2 11
0031	0.68	-0064	141	0097	2 13
0062	0.70	0065	1 43	0098	2 15
0033	0.72	0066	1 45	0091	2 17

# No 16.-VELVIKUDI GRANT OF NEDUNJADAIYAN. THE THIRD YEAR OF REIGN

BY H KRISHNA SASTRI, B.A., OOTACAMUND.

Sixteen years ago, when Mi Venkayya in his Epigraphical Report for 1908 (pp 50 ff ) discussed with great ability the contents of the fourth of the early Pandya copper-plates discovered "The originals of these plates have not been traced The following till then, he remarked account of them is based on a preliminary study of two excellent impressions belonging probably to Sir Walter Elliot's collections kindly placed at my disposal by Dr Fleet in 1893" These duplicate impressions of the grant now in the editor's possession, are marked by Dr Fleet "I-n-11" and must have been originally intended for publication in the Indian Antiquary Mr Venkayya, however, could not at once prepare an article on them, as the early Pandya chronology was then About the end of 1915, Dr L D Barnett of the British Museum, London, sent me impressions of a copper-plate inscription preserved in that institution and wished to know if it had been published and what its contents were Curiously enough, it happened that these were the very same impressions of which Mr Venkayya was unable to trace the originals I wrote back to Dr Barnett informing that the plates contained on them an important Pandya grant which had been already noticed in the Epigraphical Report for 1908 and asked for certain details about them He says briefly "There is no seal on the grant the plates are held by a thin copper-ring, which has been cut" The detailed measurement of the plates and their number, consequently, remain to be what has been described by Mr Venkayya, viz, these are ten copper-plates. of which the first seven are numbered on the left margin on their inner sides and the implessions measure  $10\frac{7}{8}$  by  $3\frac{1}{8}$ , the first and the last plates being written only on their inner sides

The writing on the plates is both in the Grantha and Vatteluttu characters, the first being used in Sanskrit passages (Il 1 to 30 and Il 142 to 150) and in all Sanskrit words that occur in the Tamil portion of the inscription The Grantha characters and orthography do not call for any special remarks except that in almost all conjunct consonants, where they are written one below the other, the upper or the first member of the compound letter is marked by the virama, following evidently the Tamil method of writing The same influence is also observed in the pronunciation and spelling of Sanskrit words, eg, pārakan and purōkan (l. 99) kritapatanan (l 100) and kandakanishturan (l 100 f) In one particular case, the purely Tamil word antanar (1 61) is written partly in Grantha and partly in Tamil The use of tsha for ksha (1 144), nma for tmu, dma for lma and ri for ri or ru, in compound letters. also shows the same unfluence Consonants coming after r are always doubled except in भने in line 14 and 'fatio in line 17 The upadhmānīya and jihvāmūlīya symbols are used throughout in their proper places The anusvāra used in -varggam=yudhi (1 14) and in samyati (1 28) is worth noticing. It denotes the anunāsika forms of yu and ya and is shaped in the form of a crescent with a dot in it placed over the heads of these letters. In his commentary on Pāninī VIII-4-59 Bhattoji-Dikshita remarks that the anusvāra in such cases changes itself optionally into the nasal form of ya

The Vatteluttu character so called, is an oblique form of Tamii (excepting certain letters) with a few angularities which on careful scrutiny could be easily accounted for. The only four letters in the alphabet whose form cannot be explained with reference to Tamil are the vowel letters: (a) (see irakki in line 40), at (a) (see aimpadinvar in line 135) and the more frequently occurring na (3 and po ) In the matter of the Valleluttu palmography of this inscription it might be noted (1) that the pull is correctly inserted throughout the inscription except in a few cases, e g, voiti= (l 31), etterattum= (l 47 f), arram (ibid), =avarku (l. 46) and volti (l 37), (2) that it is unnecessarily inserted over the vocahe e and e and even

over the initial vowel letter o, as in mennum, chchor, (1 34), korkai, korran, konda (1 35), dēy (l. 38), goli (l 43), nennun (l 45), rrennan (l 46), kkolai, chcheligan (l 50), olgāda (l 108 f.), ođođa (l. 109), polil (l. 65), pporu (l 63), poruttaga (l 71), and (3) that it is omitted in a few The shaping of the long w-sign in ru (1 119), nu (1 107) and lu (1 76) and the use of the Tamil alabedar (Skt. pluta) in kkoliya in line 97 for the purpose of completing the metrical quantity are worthy of notice This alabedar according to the Tamil grammarians is to be used in (1) selling articles, (11) calling people at a distance and (111) in filling up the metrical While in Eanskiit only vowels have pluta. quantity in a verse Pānini omits (1) and (111) in Tamil the consonants (nasals and sibilants) are also thus lengthened.

The orthographical peculiarities such as the insertion of y after consonants with the e-sign (ll 94, 97f), the substitution of the vowel i for yi (ll 66, 115, 118, 140), the non-observance of euphonic rules in adding the suffixes um (l. 93), ul (l 59), in (l. 93) and odu (l 46 f), the want of distinction between the long and the short : (except in the single instance nirod-att: in line 117) and between the long and the short o, are noteworthy Puli-ūr (1.58), omary-iruppar (1 121 f), chey-idai (1 122), mani-imai (1 81), kkali-araisan (1. 90), kurai-uzu and nirai-uzu (1 102) are also cases of the omission of sandhi Paramesiaranar-Velvihudi (1 110) for onal Vēlvikudi and telippatiu for telippatiu (11 41, 49, 52, 88) are evidently wrong forms, śeklun (1 120) for seykkun and aimpadinvar (1 135) for aimpadinmar may be regarded as colloquial usages similar also may be the use of kudu (1 125) for kodu The form wdu (1.152) for adu through the intermediate form thdu probably gives us the clue for the correct pronunciation of the Tamil aydam-sign which is now pronounced as the jihiamuliya and the upadhmaniya forms of the usarga The metre used in the Tamil portion of the inscription is the Agaial while in the Sanskrit portion the metres employed are Vamiastha (vv 1, 12), Anushiubh (vv 2, 17, 20 and 23), Vasantatilakā (vv. 3, 9 and 19), Sārdūlavikrīdita (vv. 4, 5, 6 and 10), Mālabhārini¹ (vv. 7, 8, 15 and 16), Upēndraiajrā (vv 11, 14), Drutavilambita (v 13) and Aryā (v 18)

Palæographically, the Grantha characters of the Velvikudi grant differ from those of the Madras Museum plates of Jatilavarman,2 although for reasons stated in the sequel, both of these have to be attributed to the period of the same king Nednhjadaiyan The difference is distinctly observed in the formation of the serif which in the first case is a plain horizontal line, whereas in the second, it makes a loop with the letter The bottoms of letters like ma and ba and the top of the vowel i are bent at the base line in the Velvikudi grant, whereas in the Madras Museum plates they either form one uniform curve, or are straight, the upadhmānīya and the jihtāmūliya signs are not used at all in the Madras Museum plates The punctuation marks at the end of verses in the Velvikudi grant are the pillaiyār suli (2...) whereas in the Madras Museum plates they are denoted by the so-called om symbol (9)3, anuscaras are more frequent in the Madras Museum plates than nasal conjuncts The Velvikudi grant, in numbering the plates, uses the Grantha letter-symbols, whereas the Madras Museum plates use the usual In the Vatteluttu alphabet employed, however, the two grants do not seem to differ much, except in the case of the letter ya which in the Velvikudi grant as in the Apaimalai inscription,4 is uniseptate, while in the Madras Museum plates it is bipartite. This single difference in the characters of the Tamil portion which is the earlier, and perhaps constitutes the grant proper in both, need not show that the two grants must belong to different periods

¹ The scheme of this verse as given in the Chhandomanjari is -विषमे ससजा यदा गुब चित् समरा येन तु मालभारियीयम् ॥

² Ind Ant, Vol. XXII, with Plate, pp. 57 ff.

The latest interpretation of this symbol is siddhih, success."

⁴ Above, Vol. VIII, p. 317 ff.

insertion of the Grautha portion in the Velvikudi grant might have been somewhat earlier than that in the Madras Museum plates.

The Sanskrit portion of the second commences with an invocation to Siva (verse 1) and goes on to refer in general terms to the Pāṇḍya kings and their race, of which the family priest was the sage Agastya¹ (vv. 2 and 3). At the end of the previous Kalpa, it is stated, there was a powerful king named Pāṇḍya who was ruling at the entrance into the sea (ie, on the coast of a gulf) and that the very sa ne king at the beginning of the current Kalpa was born as Budha, the son of the Moon (v. 4). His son was Purūravas, and in his family, whose crest was a pair of fish, which shared with Indra, the lord of gods, half of his throne and his necklace and was a party in the purāṇic churning of the milk ocean, was born king Māṇavarman, a patron of the learned (vv b and 8). His son was Baṇadhīra (v. 9) and his son Māṇavarman II Rāṇasimha (vv 10 and 11) at whose presence the king P llavamilla ran away from the battle-field (v. 12). This king Rāṇasimha married a Malava princess and by her begot king Jatila (v. 14), who was also called Parāntaka (v. 17). Thus ends the short Sanskrit eulogy (praśusti) which was composed by the Sariakratuyājin Varōdaya-Bhatca (l. 30).

We may now pass on to what the bigger and the more important part of the record, the Tamil praineti, has to say, with the remark that the Sanskrit portion, by its brief notice and the very meagre historical material which it supplies in the form of a general introduction, could not have been contemporaneous with the Tamil portion It was evidently added only later to give a dignified appearance to the grant proper which is in Tamil This Tamil portion begins with the mention of a past event, namely, that the kelvi-Brahmans" of Paganur-Kurram seeing that one of their own community, named Narkorran, the headman of Korkan, who had contemplated the performance of a Vedic sacrifice, with the help of the ruling Pandya king (adhirata) Palyngamudukudumi Peruvaludi, placed his petition before the king and themselves standing in front of the sacrificial hall, blessed that spot to be thenceforth (?) called Velvikudis The king granted the village to Narkorran and it was thus that the village came to be enjoyed by the latter for a long time After this, a powerful Kali king, named Kalabhran, conquering many adhirajas, brought under subjection the whole Pandya country including, of course the village Velvikudi which was then resumed. Some time clapsed and after this sprange forth a powerful Pandya, named Kadungon, who reconquered the whole land from his enemies. His son was Avanichülämani Māravarmap. His son was Seliyap Vāpavaņ Sēndan and his son, Arikësari Asamasaman Maravarman, who won a battle at Pali against his enemies. defeated a certain Vilvēli at Nelvēli; destroyed the Paravas and the people of Kuru-nādu; won a victory at Soppilam, conquered the Keraja several times at the strongly fortified town of Puliyur; made many gifts and protected the Brahmanas and the invalids His son was Sadaiyan, the lord of the Konga country (Kongarkoman), who was possessed of the titles Tanna-Vānayap, Šembiyau, Šēļap and Madura-Karunātakan, 4 won a battle at Marudūr.

Agastya is also supposed to have been the founder of the Tamil language and the author of the Tamil grammar Agattiyam mentioned in Tamil literature He is referred to as the family priest of the Pāṇdyas also in Kālīdāsa's Raghutamta, VI. 61, and in the commentary on Igasganār Agapporuļ.

² Kēļvi-andaņāļar may also mesn 'learned Brāhmaņas'. But kēļvi seems to be used here in a technical senso. In inscriptions we find the word applied to a class of administrative officers whose business was to carry the applications of petitioners to the 'hearing' of the king See also Ep. Ind. Vol. III, p. 69, foot-pote 7.

⁵ I.s., the village of the sacrifice In the Tamil portion in 1 108 f. it is stated that the village had the name Volvikudi given to it by king Mudukudumi

The significance of this title is not apparent. Could it be that like Sembiyan and Sölap he could have acquired it by conquering the Western Châlukyas who were known as Karnüţakas? But we know that there were too far away from the reach of the Pāṇḍyas Another possible explanation is that the Pāṇḍyas might have intermarried with the Chālukyas and the issue of such an intermarriage might well be called the Sweet Karnāṭaka'! Aga'n, the identification of the Kalabhra with Karnāṭa by. Mr. Venkayya (see below p. 295) seems to gain in significance in considering the propriety of the title Madura-Karnaātakan held-by king Sadaiyan.

2 8 2

defeated Ayavel in battles at Sengodi and Pudankodu, destroyed the Maharithas at the big town (Mahanagara) of Mingalapuram and stamped the symbols of the bow, the tiger and the fish on the big mountain, viz, the Himalayas This shows his supreme authority over the Chera, Chola and Pandya countries, whose symbols were the bow, the tiger and the fish, respectively His son was Ter-Maran who routed his enemies at Neduvayal, Kurumadai, Manga-Kurichchi, Tirumangai, Püvalür and Kodumbālür, defcated the Pellaval king and captured his elephants and horses in the battle of Kulumbür, crushed his enemies at Periyalür crossed the Kaviri (1 e, the river Kaveri), subdued (the country of) Mala-Kongam, reached Pāndi-kKodumidi, worshipped Pasupati (1e, Šiva), contracted marriage relations with Gangaraja and renewed the fortifications of Kūdal, Vanjı and Köli His son was Perantaka Nedunjadaiyan, who drove the Kadava (1 e. the Pallava) into the forest, after defeating him in the battle of Pennagadam on the southern bank of the river Kaviri and won a battle at Nattukkurumbu driving away the Ayavel and the Kurumbas to the forest possessed a long list of birudas such as Śrīvaran, Śina-chCholan, Puna-pPūliyan, etc. enumerated in 11 98 ff

In the third year of the reign of this last mentioned king, a man having arrived at Küdal with a loud complaint, the king himself enquired into the matter with kind words and hearing from him how his village Velvikudi in Paganur-kurram, originally granted under that name by his ancestor, the great king (Parameśvaran) Palyagamudukudumi Peruvaludi, was resumed by the Kalabhra and had since then remained so even after the resumption of Government by the Pandyas, he ordered the applicant to produce the necessary evidence before the nadu to prove that the village was his from early times and thus to get it back. The complainant proved his claim accordingly and the king renewed the grant to the applicant Kāmakkāni Narchingan, the headman of Korkar The anath of the grant was Madavikalan Marangari alias Müvendamangala-Pperaraiyan, the crest-jewel of the Vaidyakas and a native of Karavandcpura, and a favourite of the king of kings (1 e, the Pandya king Nedunjadaiyan). It is stated of this Marangam that he fought bravely in the fight that ensued between the kings of the Eastern country (Pūrva-rājar) and Vallabha on the occasion when the daughter of Gangarāja (the Ganga king) was procured for Kongar-kon

Li 134 to 141 repeat that the owner of this brahmadeya (112, Velvikudi) was Kamakkani Suvaran-Singan, the headman of Korkai, by which perhaps the Narchingan, just mentioned, must be referred to The composer of the Tamil prafasti was the Sēnāpati Ēnādi alias Śāttan SEttan. This brings us to the end of the Tamil portion. The next Sanskrit verse speaking of the ajnapte of the grant says that he was Mangalaraja Madhuratara, a Vaidyaka and a master of the Sastras, a poet and an orator Then follow four imprecatory verses which are expressly stated to be quoted from the Vaishnava-Dharma. A Tamil prose passage coming after this says that the king himself ordered the engraving of this copper-plate grant and that the engraver was a certain Yuddhakēsari Perumbanaikkāran.

In noticing these plates in his Annual Report on Epigraphy for 1908, pp 50 ff, Mr Venkayya has already made it clear how Kalpa-kshayāt in v 4 has to be understood with reference to the traditional account of the deluge3 or tidal wave in the Pandya country and to the survival of a king of the old Pandya line "of the race of the Moon and in all respects corresponding," under the name Budha Similarly also, the mythical boast of the Pandya kings to have engraved their crest on the top of the Himalayas and to have shared one-half of Indra's throne and worn the garland of the king of the gods, has been shown to occur frequently in the later Pandya inscriptions Palyagamudukudumi-Peruvaludi is a historically famous Pandya king in whose honour

¹ The name of this Pallava king, which begins with Se, is hopelessly damaged on the impression

² Evidently the same mentioned in connection with the next king, his son Nedmijadanyan. Old Meduta is supposed to have been washed away by the sea see commentary on Agapporul, p 4.

five poems are known to have been sung by three famous Sangam's poets and included in the Tamil anthology called Purananuru. In one of these he is stated to have captured the extensive forts of his enemies and to have destroyed and ploughed their streets with a team of white-mouthed This way of dealing with the conquered countries seems to be a very old one. Dr. S. Konow posats out that there is a reference to it in the Hathigumpha inscription of Khāravēla? It is mentioned also in some inscriptions of the later Pandya king Magavarman Sundara-Pandya I The Kalabhra occupation of the Madura country and the consequent interregnum are also noted by Mr Venkayya with the remark that the Kalabhra may be the Karnata. After the interregnum came Kadengon with whom the first academy (Sangam) of Tamil poets is supposed to have come to an end The list of the kings that followed Kadungon to the donor Nedunjadayan is given in a genealogical table on p 54 of the Annual Report on Epigraphy for 1908, together with further information supplied about them by two other sets of Pandya copper-plates secured from Signamanur Mr. Venkayya thinks that Nedunjadaiyan of the Velvikudi grant must be different from Nedunjadaiyan of the Madras Museum plates published by him in the Indian Antiquary, not only on the strength of certain paleographical differences already noted above but also on account of the different engravers who in the one case was Yuddhakësari Pandiya-Pperumbanaikkäran and in the other, Pandi-Pperumbanaikkäran He further identifies Nedunjadaryan of the Volvikudi plates with Maranjadaialias Arikčsari yan of the Anaimalai cave inscription, for, between these two there is not only paleographical similarity, but also it happens that the agaapte of the former is the prime minister mentioned in the latter, both being called Marangaii Muvendamangalapperaraiyan, members of the Vaidya (or Vaidyaka) family and natives of Karavandapura with the attributes Moduratara and Kavi Consequently, the two kings Nednnjadaiyan and Maranjadaiyan, who both bore the same surname Parantaka, must be identical and the date of the Velvikudi grant must be about A D. 769-70 which is the date of the Apaimalai inscription.

About the military achievements of Nequinjadaiyan we learn from this inscription that he defeated the Kādava king at Pennāgadam on the southern bank of the Kāvēri river and grove the Āyavēl and the Kurumbas in a battle fought at Nāṭṭukkurumbu Again, a statement made about the ājāapti of the giant in lines 126-129, adds that Mārangāri rendered valuable service to his master Neḍuñjaḍaiyan by defeating a certain Vallabha at Venbai, on the occasion when the eastern kings secured the hand of the Ganga princess in marriage for Kongarkön. Here Kongarkön in order to suit the context, must be taken to be a surname of the Pāṇdya king Neduñjaḍaiyan himself. This is not improbable, masmuch as his grandfather Śadaiyan is also called in the inscription (Text, l. 70), Kongarkōmān, and his father Tēr-māṇan is stated to have contracted relationship with the Ganga king (Text, l. 84) This latter event perhaps refers to the occasion when Māṇangāri achieved the success mentioned above.

In spite of what Mr. Venkayya thinks about the identity of the kings mentioned in the Velvikudi plates and the Madras Museum plates there are strong reasons to believe that both refer to the same king. For, the ruling king Parantaka. Nedunjadayan and his birudas Panditavatsala, Virapuroga and Vikramaparaga occur in both Further, the surname Śrivaramangala given to the granted village Vēlangudi in the Madras Museum plates makes it clear that the king must have also had the biruda 'Śrivara' which we find actually given to him in the Vēlvikudi plates. The special mention of Mūrti Eyinan in 1 136 of the Vēlvikudi plates as

According to tradition there were three Sangams or old scademi s of Thmil Poets. The date of the last of these has been widely discussed. The latest pronouncement on the subject is that it must have come into existence some time after the 5th Century A. D

² Acta Orientalia, Vol I, Part I, p. 23f.

[?] These plates are under publication by me in the Epigraphia Indica.

s' Mr K V Suhrahmanya Ayyar also supposes it to be so, vide his Sketches of Ancient Dekhan, pp 103 ff.

one of the fifty Brahmana sub-donees marks him out as an important personage. From the Anaimalai inscriptions, we know that Eyman was an epithet or surname held by Maran Eywan, the younger brother of Marangari himself. Pethaps Maran Eyman and Murti Lyman were both younger brothers of Marangari The ajnapti of the Madras Museum plates was Dhīrataran Mūrti Eyman, who was one of the mahū sūmantas of the king. There is little doubt that Mürti Eyman of our plates and Dhirataran Mürti Eyman of the Madras Museum plates are identical and that thus also the king Nedunjadaryan mentioned in both these sets of plates is one and the same If this identification is accepted the two allied plates together supply the full list of the military exploits of Nedunjadaiyan By the third year of his reign (the date of the present grant) Nedunjadayan must have subdued the Ayavel and the Kurumbar and defeated the Pallavas south of the Kaviri; but before his 17th year (the date of the Madras Museum plates) he had carried his conquests right into the heart of the Kongu country and taken possession of it by defeating its king Adiyan and his allies the Pallavas and the Keralas The conquest of the Kongu country and the desire to possess it seem to have been very strong with the Pandya kings For, Sadaiyan, the grandfather of Nedunjadaiyan, held the title 'Lord of the Kongas' and his father Ter-Mayan actually crossed the Kaviri, subjugated Mala-Kongam and had invaded that country even as far as Pandi-kKodumudi. Neduñjadaryan seems only to have followed in the footsteps of his ancestors in subduring the Kongabhūmi, as far as the land of the Gangas The information that a Ganga princess was married into the Pandya family is not mentioned in any of the Ganga records of this period which fells unto the reign of Sıvamāra I (755 to 765 AD). The Vallahha or the Western Chalukya king who was defeated on this marriage occasion was probably Kirtivarman II who succeeded to the Chalukya throne in AD 746 or 747 and whose army is stated in his records to have defeated the army of the Keralas, the Cholas and the Pandyas

From what is stated of the countries of Kongu and Kērala in these inscriptions of Nidunjadanyan, it is not difficult to see that the former was bounded on the east and perhaps also on the north by the land of the Gangas-the Gangavad: 26,000 of the Western Gangas of Talakad and that on the south it extended far beyond Kodumudi, as even to cover the northern portion of the later Rajasarya-Valanadu of the Cholas which included in it the present Musiri and the Trichinopoly talukas Coimbatore was in the western division of the Kongu-mandalam The king of the Northern (vada) Kongu was Adiyan1—the Adigaiman or Adiyaman of later inscriptions whose capital was at Dharmapuri, the ancient Tagadur, in the Salem district The Kerala country was situated on the west coast beyond the Sahyadri mountains and may have included also the southernmost portions of the present Coimbatore district. In the 8th century, therefore, it looks as if the Kongu king allied himself with the Pallavas in the north and the Kerrlas in the south and tried to oppose the invasion of the Pandya Nedunjadaiyan Vallabha was defeated by the Pandya general and a Ganga princess was married into the Pandya family perhaps as a political measure. It is stated that Pürvarajar put to flight Vallabha. Māratgāri also fought on the same occasion Perhaps the Pūrvarājar were the chiefs of Gangavadı subordinate to the Western Ganga king who contracted marriage relations with the Pandvas

Mr. Venkayya observes again in his Epigraphical Report that the title Arikësari occurring in text-line 62, was borne by a certain Nedu-Māran who is mentioned in the commentary of Nakkirar on Iraiyanār-Agapporul This latter work, as tradition says, was made available for the public by Milakandanār of Mušini eight generations, i.e., about two hundred years, after the actual date of Nakkirar Mr Venkayya seems to have gone wiong in identifying Nedu-Māran of literature with Tēr-Māran of the Vēlvikudi plates where, however, the characteristic title Arikēsari is not given to him The other titles, too, are not applied to him and the

Bee remarks on his hamakkal inscription in the Madras Epigraphical Report for 1905, p. 75 f

buttles fought by him as described in the commentary under reference, are not found in the eulogy of fir-Major given in the Vilvikudi plates. On the other hand, Majorarman, the great grandfaths, of the donor Neducy ideavan is not only called Arikesari but is also stated to have fought victorious buttle at Pith, S implain and Nelvili which same are mentioned of him in the commentary on the tapp will. This mention, therefore, of the very same buttles both in the plates and in the commenture, sufficiently warrants our identifying Nedumöran of the commentary with Majorari min, the great grandfather of Neducyadanyan and not with Ter-Mörap Nal kirar has sung also of Neducyahyan in Pajoraripaju, and it is not impossible that this Neducyahyan is identical with Schwan, the father of Arikesari Majorari man

Of the an ance-tors of Nedunardanan mentioned in the Tamil portion of the inscription and the three immediate ancistor mentioned in the Sanskiit portion, we learn nothing more than that the list king Kaani of a who came to rule after the Kalabhia interregnum was a Pandy-adhirija,* that the next Maranan hore the title Aramchüläman and that the third Erndan, also called Selven and Vanaran, was probably identical, as stated above, with Neducip liven of the Paga Judical fame. The fourth king, whose military achievements are given in detail, was StI-MTrivarman Arthesari Asamasaman, who in addition to the victorious battles mentioned the districted the Paravas and the people of Kugu-nadu fifth Sadaryan also called Rucalliure, was the lord of the Kongas, fought buttles against the Aynvil at Marudar and with the Maharathus at Mangalapura; and the sixth, Tor-Magan or Rajasimlas, defeated Pallavamalla, perhaps at Kulumbur, and fought battles at Neduvayal, Kurumad e, Marmi uncheln, Tuumangai, Puvalii, Kodumbalii and Penyaliir and subjugated the country of Mala-Kongam as far as Pandi-kKodumidi. He contracted relationship with Gangaraja, marrying the daughter of the Ganga prince to his son Nedunjadaryan, himself has my married the daughter of the king of the Malayas 5 The fact that he defeated Pallavamalla shows that To-Maran must have been a contemporary of that king and lived about A D 710-760 4

As regards the territorial terms and village names that occur in the inscription, Pāganūr-kūram ir identical with the division of that name in which the village Śōlavandān near Madura was included 6 Malaya is identical with Mala-nādu 6 Kuru-nādu, and the granted village Vēlvikudi, and the villages Nagarūr, Korranputtūr and Pāyal mentioned in the description of the boundaries of the latter cannot be identified. Korkai is the well-known seaport of that name in the Tinnevelly District. Of the villages Nelvēli, Šenpilam, Puliyūr (in Kērula), Marudūr, Mangalapura, Nedurayal, Kurumadar, Mappikurichelii, Tirumangar, Pūvalūr, Šengudi, Pudāngōdu, Kodumbītār, Kuļumbūr, Periyalūr, Pāndikkodumidi, Kūdul Vañji, Koļi, Pennāgadam, Nūttukkurumbu, Karayandapuram and Venbar,—Nelvēli is Tinnevelly;

चतुकास्ट्रपर्यंग्तं पृथिवी य. प्रपालयत्।

चक्रवर्भी छनाच्यात: सप्तराध्य प्रपालयेत ।

श्रधिराशसामाच्यात.

(Hindu Iconogiaphy, Vol I, Part I, p 29 n)

Malara is identical with the old Mala nada or Rajasraya Valanadu (see S. I I, Vol II, Introduction, p. 24, and Instorical Sketches of Ancient Dekhan, p. 129)

¹ Ibid , pp 129 ff

² Describing the several grades of rulers, the Kāmikāgama states that an adhirāja—ādhirāja is the form which the inscription uses throughout the Tamil portion—holds the second rank among kings—

⁴ Udayachandra, the general of Nandivarman Pallavannalla, also claims in the Udayandram grant to have defeated the Pändya at Mannaikkudi (S. I., Vol. II, p. 368, Text, l. 60 f.) Perhaps we may have to identify Mannaikkudi with Mannaikkudi with Mannaikkudi with Mannaikkudi which is mentioned in the Tamil portion (Text, l. 73 f.) as one of the places where Ter-Märan was victorious

No 127 of the Madras Epigraphical Collection for 1910.

⁶ See above note 8,

Maradūi is p rhaps Tiruppudaimarudūr near Ambāsamudram, Mangalapuram of the Mahārathas might be Mangalore; Kodumbālūi is in the Pudukköttai Strte, Pāndikkodumidi is the village Kodumudi neai Kaiūi a station on the South-Indian Railway, Kūdal is is the village Kodumudi neai Kaiūi a station on the South-Indian Railway, Kūdal is Madura; Vañji is Karūr¹, Kūli is Woraiyūr neai Tiichinopoly, Ponnāgadam is in the Tanjore District, and Karavandapuram is the modein Kalakkād in the Tinnevelly District.

#### TEXT.2

#### First Plate.

#### Svasti³ [[*]

- 1 Śriyañ=chiram vaś=śisu-āmśu-śākhaiaś=Śiva[h*] śrit-ārtii-pratikandha-kāranam []*]
  tanōtu sauvarnna-kapa-
- 2 rdda-sundarah-kudarppa-Kandarppa-mada-pramarddanah [1*] Viśvambhatā-bhara-śrānta-śēsha-viśrama-kāranam [1*] ā-
- 3 kalp-antam=hhuvi stheyad=anvayah=Pandya-bhabhritam 2. [2*] Astambhayat=kshiti-dharam=pravijrimhhamanam=ambha-
- & s=samastam=apihaj=jaladh€ś=cha yas≈sah [[*] Kumbh-ōdbhavō bhaveti yasya munih=purōdhās=sa śrī-nidhi-
- 5 r=jayati Pāndya-narindra-vamšah 9 [3*] Aschād=apratima-prabliāva-malitāh= Pāndy=āblidhānō nidhē-
- 6 r=vvārādhvān⁴ mahīpatis=tribhuvanē līnē=pi kalpa-kshayāt [[*] Dhātrā sņishtavatā punas=sa
- 7 jagatām rakshārttham=abhyarthitas=tējasvī tanayatvam=ītya šašīnō nāmnā Budb= ākhyō=bhavat <u>o</u> [4*]

# Second Plate , first side

- 8 Putras=tasya Purūravā bhuja-bala-pradhvasta-daityah=prabhus=tad-vamśē Sikharin-dra-mastaka-śi-
- 9 lā-vinyasta-matsya-dvayē [|*] Šakr-āi ddh-āsana-hāra-bhāji śaranē viśvasya viśvasya viśvasya vambharā-gēha-
- 10 svāmmi šāšvatē yudhi nt-āšēsh-āmar-āri-prabhau 2 [5*] Dūtībhūta-divokasis kshitidhara-kshu-
- 11 bdh-ābhīsaml-shōbhīta-kshīr-ōdanvetī Kumbha-sambhava-kara-prāpt-ābhīshēka-krīyē [[*] ishṭ-ārtth-ārppana-
- 12 tarppit-ārttbi-janat-āptīrnņa-kshamā-mandalē janm=āvāpa jaga⁶-tray-ārchchita-guna[h*] frī-līāravarmmā nrī-

2 From two ex-ellent impressions supplied by Dr Flest to Mr. Yonkayia in 1893 and snother supplied by Dr L D Barnettio me in 1915

¹ Pandit Baghara Aiyanga- of Ramnad has proved from copions references to literature that the earliest Vanji is Karur But an inscription at Dharapuram mentions the town Kongu-Vanji, suggesting thus, another Vanji which was perhaps the earlier and the capital of Cha-a.

^{*} Read jagato.

# Velvikudi Grant of Nedunjadayyan the 3rd year

તાકામાં ક્રિયાલ કે કે કે જે કે લ્યા કે ક્ષેત્ર કે કે અને હો કો કે કે સ્ટ્રોના કે કે હેડે કર્યો કે કે હેડે કર્યો કે કે હેડે કર્યો કે કે હેડે કર્યો કે કે હો કે કર્યો કે કે કે કર્યો કે કે કે કર્યો કે કે કર્યો કે કે કર્યો કે કે કર્યો કે કે કર્યો કે કે કર્યો કે કે કે ક્ષેત્ર કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે ક્ષ્યો કે કે

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- 13 Pan <u>g</u> [6*] Dharant-valayam samastam=ētan=nija-dörddanḍa-mah-ōrag^zna bibhrit¹ [1*] aharat-sa bhu-
- 14 gringam-ādhibhartuš=chira-kāl-ödvahana-klaman=dhatāyāh 🙇 [76] Adhiruhya tulām=a-mitra-varggam-yudhi ji-

#### Second Plate, second side

- 15 tv-Āmrita-garbbhatð janitvā [†*] sudhiyām=adhipas=suvarnna-rāsīm vidhivat=sa prat·pādayām-babhūva [ 6 [8*] Tasy=ā-
- 16 ²nmajus=taruna-bhūskara-tulya-tējā rājā babhūva Ranadhīra iti pratītah [[*] 30 lilay=aiva bhuxana-
- 17 sya babhāra bhāram hāram yath=āsya guravas=suranāyakasya **9** [9*] Putras=tasya Purandara-pratikritir=bhū-
- 18 sundarı-ı allablığı namr-üfüslia-naründra-ı öslitana-manı-vı ät-ävrit-ämgliri-dvayal [[*] äşlt=batya-saklalı=pa-
- 19 rākrama-dhanaḥ=°patmāsanāyāḥ=patir=vvidy-āchāra-vibhāshana[h*] śruta-[dha]ra[h*] śri-Māravarmm=ābhidhah ത [10*] Sa Rāja-
- 20 simbas=sarasiruh-ākshō bhayam bhuvi prāna-bhitām=apāsya [i*] raraksha dakshah kahapit-āri-paksha-
- 21 h-kshamātalam kshmā-patīr-akshat-ājñah 2. [11*] Naro nu Raksho nu Harōnu Pārushah-patō nu Sakrō nu

#### Third Plate, first side

- 22 sarösham-agatah [i*] 1ti [sma] matva yudhı yam=bhay-a[rddı]tah=[pa]layatö [Pallava]malla-bhapa-
- 23 tılı 9 [12*] Kanaka-garbbha-krita-prasavalı=punas=samadlıruliya tulām=atulām= apı [[*] akıra[t=ā]-
- 24 rttham=apākrita-kalmashā dvija-daridra-sur-ayatanē=shu yah 2 [13*] Māhā⁵-kulinām=Majav-ēndra-[ka]-
- 25 nyam sa Máravarminā sadrašīm⁶-uvāha [|*] ajāyat=āsyām Hara-sūnu-kalpē _{lagad-d}hitārtthañ-Jati-
- 26 l-ābhidhāuah 💇 [14*] Aéishat=sa dharām=ahīna-sārah=kshitipali=kshālita-7 kalmash-ānushamgam [|*] nata-rū-
- 27 jaka-maulı-ranna⁸-raśmi-prakar-ābhyarchchita-pāda-patma⁹ piţhah **9** [15*] Khalayē sa gunān=adāt=Kritasya
- 28 sva-bhujābhyām sura-pādapa-svabhūvam [¡*] abhayam saranāgata-prajābhyas=sa dīvam samyātī sa-

¹ Read bibhrat

² Road olmaja° 5 Road Mahā.

Read Padmão
Read sadrisim=

Read pakshah kshamā° Road kshstspah kshā°

⁸ Roud raina.

[·] Read padma.

# Third Plate, second eide.

- 29 tru-pārtthivēbhyah 👲 [16*] Rájatām sa mahīpāla-kirīt-ārppita-sāsanah [[*] Rājasimha-sutō rā-
- 31 yyappattadu | ||||- Kol-yānai-palav=ōţţi=kkūdā-mannar-kulān=tavı-
- 32 rtta Palyaga-Mudukudumi-pPeruvaludi ennum Pandyadhirajana-
- 33 nāga-mā-malar-chcholai-nalır-sinaimisai-vaņd-alambum Paganūr-
- 34 kkūrram1=ennum palana-kkidakkai-nīr-nātiu=chchorkannālar-to-
- 35 lappatta érutimārggam-pilaiyāda Korkai-kilā=Narkorran koņ-
- 36 da vēlvi mujjuvikka kēlvi-andaņālar munbu kēţka epj=edut-

#### Fourth Plate, first side

- 37 t-uraittu vēlvišālai-muņbu niņru Vēlvikudi en;-a-ppadīyai-chchī-
- 38 rodu tıru-valara=chcheydār [||*] Vēndap=appoludēy nīrod=atti=kkoduttamai-
- 39 yā-midu-bhukti *tuttapının[] = Alav-ariya adhirajaran agala nikki agal-idattan=
- 40 kKalabhran-ennun-Kala-araisan kaikkond-adanai iyakkiyapin[[ ] Padu-kadan-mulai
- 41 tta paradı-pöla Pandyadbırajan velippatin vidu-kadir-avir-oli vilaga virri-
- 42 rundu vēlai-sūļuda-viyal-idattu=kkovun=kurumbum pāvudaņ murukki=chche-
- 43 nkol-ochchi ven-kudai-mlar-rang-oli-nirainda Tarani-mangaiyai-ppirar-
- 44 pāl-urimai tiravidi-nikki-ttanpāl-urimai nangaņam-amaitta māņam-pē-
- 45 rtta-tāņai-vēndaņņ-odungā-maņņar-oli-nagar-aļitta Kadungōņ-eņņun-kadi-
- 46 r-vēr-Bennsn [||*] Marr-avarku magan-āgi mahitalam podu-nikki Malar-mangai[y*]-o-,

# Fourth Plate; second side

- 47 du maņan-ayarnda arram-il-adar-vēr-rānaı-Ādhirājan Avanıchülāmaņi etti-
- 48 sattum=igal-alıkku=matta-yāṇai Māravarmman [||*] Mast=avatku maruv=iniya
- 49 gi Maņ-magalai maru=kkadındu vikramattın velırpattu vılangal-věl-po-
- 50 ri-vēndar-vēndaņ šilai-ttada-kkai=kkolai-kkalırru=chCheliyan Vāņavaņ
- 51 śenkör-Chēndan [||*] Marr=avarku=ppalipp-ing vali-ttönn Udayagiri-madhyama-
- 62 tt=uru-sudar-pola=tterr-epru disai nadunga marr=avan velirpattu=chchū-
- 53 lı-yānaı telav=undı=pPālıväy=amar-kadandu Vılvēlı-kkadar-çānaiyai
- 54 Kelvēli-chcheru vengum viravi-vand-adaiyāda Paravarai-ppāl-padut-
- 55 tum=a;ukāl-iņam pudai tilaikkun=Kurunāttavar-kulan=keduttu-
- 56 4=kai-nnalatta-kalig=undi=chChennilattu-chchern vengum par-alayun=

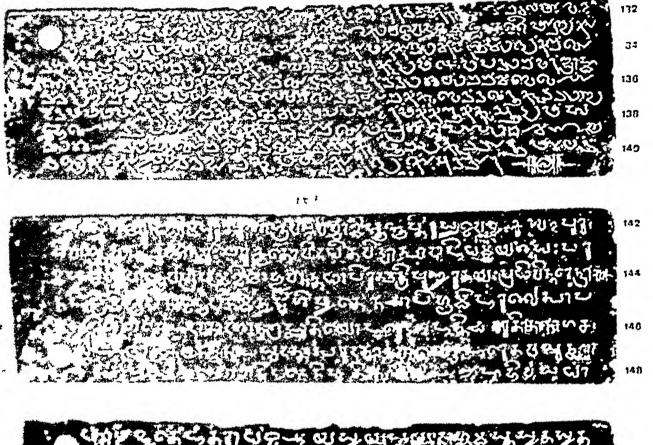
¹ The perfe is marked over me

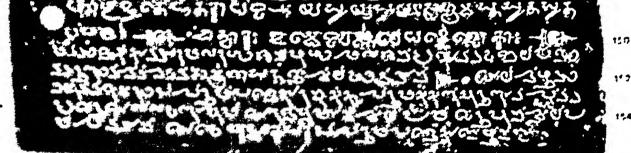
² Read tuytta".

# Velvikudi Grant of Nedunjadaiyan. the 3rd year 7111 a









### Fifth Plate; first esde.

- 57 [ta]nı-ohchenkor-Kerajansı=ppala-mu[ranyum=urman]-ohchunram[od=avar-ya]pan-
- 58 [y*]um purisai-mmadif-Puli[y*]ür-ppaga-näligai iga[v]amai iga[l-a].
- 59 ļi[y*]ul venru kondum vēl-āļi[y*]um viyaņ-parambum=ēlāmai sen-
- 60 reefindealittum Hiranyagarbhamun=Tulabharamun=darapimisai=ppala sey[du]
- 61 antaparkkum asaktarkkum vand=apaiga enr=Itt=alitta makarikai-api-mapi-
- 62 nedu-mudi-Arikësari Asamasaman ári-Maravarmman [||*] Marr=avarku maganági=kkorra-vő-
- 63 l valan-öndi-pporud-ürun-kadar-fanaiyai Marudürun mapb-alitt-Ayavö-
- 64 la agappida eysennämai erindsalittuschChongodi[y*]um Pudap[kö]t-
- 65 tun-cheru veng-avar-sigan-tavirttu-kkong-alarun-nagum-polilväy-kku-
- 66 [y*]1[lo]du ma[y*]1l=agavu=Mangalapuram=ennum mahā-nagarun Mahāratharat e-

#### Fifth Plate , second sade

- 67 rind=nlitt-agai-kadal-valagam podu-moli agarri=chchilai[y*]um puli[y*]um
- 68 kayalun-chenzu nilaiy-amai-nedu-varai-idava[y*]ir-kidky maan-inid-anda
- 69 tanp-ali-chchenkor-Reppa-Vānavap Sembiyap Šolan mannar-manna[p*] madu-
- 70 ra-Karunādagap kog-ņaviņra neduā-chudar-vēr-Kongar-komāp ko=chChadaiyap
- 71 Marr-avarku putranāy Man-magaladu poruţtāga matta-yānaı selav=undı māna-
- 72 vēl valaņ-ēndi=kkadu-višaiyāl=edirndavarai Neduvayalvāy nigar=aļi-
- 73 ttu-kkaruv-adainda magattavarai-kKurumadaiväy-kkürpp-alittu Ma-
- 74 nnıkurıchohi[y*]un=Tırumangai[y*]u=munnınızavar muran=alıttu mēvalö-
- 75 r-kadar-ranai[y*]od=err=ediroy vandavarai=pPuvalur=ppuran-gandun=
- 76 kodum-purisai-nnedun-kidangig-Kodumbāļūr=kkūdār-kadum-pari-

#### Sixth Plate , first side

- 77 [y*]un=karun-kalışun=kadır-völış=kaıkkonduñ-Chēva [kü]dāda Pallavapaz=k
- 78 Kulumbüruţ=ţēś-alıya enn-ışanda māl-kalışum=ıvu[lıga]lum pala kavarn-
- 79 dum tarıyalaray=ttarittavarai=pPeriyalür=ppid-alittum püviri y* |u-
- 80 m-polir-chölni-kKşviriyai-kkadanditt-alag-amainda vār-silai[y]in Mala-Ko-
- 81 ngam-adippaduttu mind-oliya-mani-imaikkum-elil-amainda nedum-pu-
- 82 rism=pPāndikkodumidi sepr=eydi=pPasupatiyadu panma-pādam paņind=è-
- 83 tti=kkanaka-rāsi[y*]un=kadır-mani[y*]um mana-magnlal=kkuduttiţiun=konga-
- 84 r-van-naruh-kanni-kGenge²-rājanodu sambandhañ=cheydum enmrandana Gô-
- 85 sahasramum Hiranyagarbhamun=Tulabharamum mannipmisai=ppala seydu ma-
- 86 rai-nāviņor kurai-tīrttun-Kūdal Vanji Köli epņu-māda-mā-madi-

#### Sixth Plate, second side

87 i pudukkı[y*]um=arai-kadal-valāgan=kuraiyād=ānda mannar-manna[u*]=Rennavar-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-manna-

- n mana-ven-kudaiman=Rër-Maran [||*] Marr=avarku magan-agi Mal-uruvin velirpa-88
- ttu=kkorra-münr=udan=ıyamba=kkulır-ven-kudaı man käppa Pü-magalum Pu-89
- la-magalum Nā-magalun=nalan=ētta=kKalı-araísan valı talara=ppolivinodu vi-90
- rprundu karun-kadal-udutta perungan-ñālattu nār-perum-padai[y*]um pā-91
- rpada=pparappı=kkarudādu vand=edır-malainda Kādavanaı=kkād-adaiya=ppū-vi-92
- rı[y*]um-punar-kalanı-kKâvırı[y*]ın=renkaraımer=rann-agam-malar-chehölaı-93
- pPennagadatt=amar vengun=ti-vay-a[y*]il=endi=ttilaitt=edirey van-94
- d=ırutta Ayavēlaı[y*]un=Kurumbaraı[y*]um=adal-amarul=alıtt=öttı=kkättu-
- [k]kurumbu segr-adaiya Nattukkurumbir-cheru v[e]nrum-arai-kadal-vala-96

## Seventh Plate, first side

- gam-oru-moli-kkoliiya silai-mali-tada-kkai Tenna-Vanavan avane-97
- y Śrīvaran Śri-manoharan Śmachcholan Punappūliyan vitakanmashani 98
- vinayavisrutan^a vikramapārakan virapurokan marudbalan mānyasāsanan Manūpaman 99
- Kılıppagaı kripālayan kritapatanan mardditaviran gitikinnaran gırısthıran 100 kanda-
- 101 kanishturan³ karyadatshinan⁴ karmukha⁵-Parithan Parāntakan Panditavatsalan paripūrnnan pā-
- 102 pabhiru kurai-uru-kadar-padai-ttanai- gunagrihyan güdhanirirnnayan6 nirai-uru-mala-
- 103 r-mani-nin-mudi-Neriya[r*]kon=Nedunjadaiya[n*] [1]*] Marr=avanran vatsalam7 münrā-

#### Seventh Plate, second side

- 104 vadu selāmīpa āng=oru-nān=māda-mā-madīr-Kūdar-pādu ninravar ā-
- 105 krodhikka=kkorravaney marr=avarai=tterrena nangu küvi enney nun=kurai
- 106 enru munnaga=ppantt-arula mē-nā=nın-kuravarār=pān-murai[y*]ın
- 107 luvāmai māgan-toy=malar-chcholai=pPāganūr-kkūrrattu=ppaduvadu
- 108 álva-tánai-adal-vēndēy Vēlvikudi ennum piyar-udaiyadu o-
- 109 lgada vēr-rāṇar[y*]od=ōda-vēlı udan kūtta Palyāga-Mudukuḍumi-
- 110 pPeruvaludi ennum Paramēšvāraņār⁸ Vēlvikudi ennappattadu
- 111 kēlvīyīr=rarappattadaņai=ttulakkam-illā kadar-rānaiy=āya Kalabhra-
- 112 ral-ırakkappattadu enru nınravan vijñapyan-cheyya nanru nanr-enru
- 113 mujuvalittu nātļā-ņiņ palamaiyādal kātti nī [kolgav-en]na nātt[ā]r-raņ

#### Eighth Plate, first eide

- 114 palamanyadal kattinan=ang=appoludey katta me-nal=e[n]-kura-
- 115 varāṣ=pāṇmuṣaɪ[y*]ɪṣ=ɪarappaṭṭadai emmālun=tarappaṭṭad=enṛu śe-
- 116 mmänd=avan=edutt-arulı vır-kaı-ttada-kkai-vıral-vendan Korkat-kıla-117
- n Kamakkani Narshingarku-ttër-ödun-kadar-ränasyan-piröd-attik[ko]-118
- duttamaı[y*]ın mair=ıdarku=pperu-nang-ellaı terrena viritt=uraip-
- 119 pır=pugar-aru-polun=marung=udutta Kagarür-ellaıkkum mêkkum marr=ıdarku=

¹ Read *kaimashan

Read omshihuran

² The original has the impossible combination *vifrsulan

⁴ Read "karyadah shanan

¹ Reed karmuka".

Read padhanirnayan. 7 Read "catearam

⁸ Read nal.

- 120 tt[e]n ella: Kulandarvan-Külvandar-śe[j*]kkun=Kalandar-kkulattil=älnkk[u]
- 121 vadakkum maşı=ıdaşku mēl-ellai aşşam-ıllā=kKoşşapputtü(r)r-Odumaiy-i-
- 122 ruppai-chchey-idai mörralai-ppei uppirku=kkilakkum marr=idarku vadapä-

#### Eighth Plate, second side

- 123 l-el[lai kāya]lut=kamalam malarum Pāyalul vadapālai=pperuppirku=t-
- 124 terkum ıvv=ıyaıt[ta*] peru-näng-ellaıyır-patţa pümı käränmaı miyātchi
- 125 nll-adanga möl-en-guravaräg-kudukkappatta pariséy emmälun=[ko]duk-
- 126 kappattadu [||*| Marr=idark=anatti kurram-inri=kkurunkalai=kkongar-van-na-
- 127 run-kannı-1kGıngarajanıdu kanya-ratnam Kongarkörku=kkunandu koduppa arp-
- 128 p-arā-adar-rānai-pPūrvvarājar pugang-elundu vil-vilavun-kadar-rānai-[Va]llabhanai
- 129 Vendarvāy ül-amarull=alınd-öda väl-amarul=udap=vavviya ėna-ppori2
- 130 igal-amarul=idi-urum-ena valan-enda [malai]tta-tünai-Madavikalan³ mannar-kō-
- 131 n-arulır-perrun=kol-valaikkum-ver-ranai-ppal-valai-kkon kunara-

#### Ninth Plate , first side

- 132 ppattu=ppor-vandavar-madan=tavirkkun=Karavandapurattavar-ku[la-t]topral mav=en-
- 133 dun = kadar rāṇai Mūvēndamaṅgalappērarai[ya]n = āgiya Vaidyaka-sikhāman! Mārangā-
- 134 rı [||*] I-ppıramadeyam-udaiya Korkai-kilän Kāmakkāni Suvarañ-Jingan 1-
- 135 danul münril-onrun-tanakku vaitt-irandu-kürum aimpadinvar Brāhma-
- 136 naikku nirod-atti-kkoduttap [1*] Idapul Mürtti Eyinan savai[y*]od-o
- 137 ttadu nang-arai-ppadagaram-udaiyana [|*] Idanut-tanakku vaitta oru-kurrilu-
- 138 n=tambımaıkku nangun=tan=chişrappapar-makkalıkku ağum sa-
- 139 bhai[y*]od-otta padagaran-koduttan [|*] I-pprasasti padina Senapa-
- 140 tı Enādı a[j*]iņa Śāttañ-Chāttarku munru kurrārum-ay=t-
- 141 tangalod=otta nängu padagäran=koduttär ||4

#### Ninth Plate, second side

- 142 Āsit⁵-Mangalarājō Madhuratarah śāstravit=kavir=vvāgmī[|*] ājñaptir=asya Valdyah Karavandapur-ā-
- 143 dhıvāstavyah 2 [18*] ⁶Ratshān=narah parakrıtau vidadhīta vidvān=pādā hi Dharmma vasasah para-
- 144 masya labdhā[h*] [|*] Dhātr=aiva 7srashtam=akhılam 8bhuvanan=tath=apı ratshantrı9 punyaratayah 10prathivIn=narēndrā[h] || [19*] ||4
- 145 Na li bhūmi-pradānād=vai dānam=anyad=višishyatē [i*] na ch=āpi bhūmi-haranāt pāpa-
- 146 m=anyad=vidhīyatē 2 [20*] Dātā daś=ānugrahnāti¹¹ yō harēd=daśa han[†]1 cha [|*] atīt-ānāgatā-

¹ Read kKanga°

² These two syllables are written over an erasure

⁴ For the ornamental form of the punctuation, see Plate

o On the use of tsha for ksha, see above, p 1.

alead bhunanam.

¹⁰ Road pri'

⁸ Rord ovikalan

^{*} Read Asin=

[?] Read spishfame.

Read 'nte.

¹¹ Rend grio,

- (V. 8). He, the patron of the learned, conquered enemy crowds in battles and ascended the scales; came out of the nectar womb (of the cow); and according to rule, gave away heaps of gold.
- (V 9) His son was the king called Ranadhira, whose provess was equal to that of the youthful sun and who bore the burden of the earth as sportively as his ancestors were the necklace of (Indra), the chief of the gods.
- (V. 10). His son was the glorious king named Maravarman, a counterpart of Purandara (Indra); the dear lord of the beautiful lady, earth, whose pair of feet was surrounded by the collection of gems in the crowns of all kings bowing in obeisance, whose friend was truth, whose wealth was prowess, the lord of the goddess of prosperity (Padmāsanā), who was an ornament of learning and good conduct and a depository of sacred knowledge
- (V 11) That lotus-eyed Rajasimha, the king of the whole earth, driving away the fear of created beings on earth, ably protected the earth unopposed (after) destroying the allied enemies
- (V 12). "Is he Nara (ie, Arjuna), is he a giant, is he Haia (ie, Śiva), is he the Primeval Man (Vishnu), is he Śakra (Indra) come with anger?" thus thinking of him, in the battle-field, the frightened king Pallavamalla runs away (from him)
- (V 13). Who being made to be born of the womb of the golden (cow) and having again ascended the matchless scales, was freed of (his) aims and showered freely (his) wealth on Brahmans, beggars and temples
- (V 14) This (king) Māravarman suitably married the daughter of the Malava king of high birth, and from her was born, for the good of the world, (the king) named Jațila almost equal to Skanda the son of Śiva
- (V 15). That king of great strength inled the earth clearing it of (all) associations of corruption; the footstool of his lotus feet was worshipped by the great lustre proceeding from the great on the growns of prostrating kings
- (V 16) I imagine that he lent (his) virtues to the Krita (golden age), (he lent) to the celestral tree its nature, from his hands; to the subjects who sought refuge (in him), his promise of protection; and to the enemy kings on the battle-field, heaven 2
- (V 17) May he be long glorious on earth, king Parantaka, the son of Rajasimha, whose commands are borne on the crowns by rulers of earth
- (L. 30) This praiasti was composed by Verôdayabhatta who was a performer of all securices (Barvakratuyâjin).
- (L 31). Narkogran, the headman of Korkai, who never transgressed the path of the Srutes as interpreted by the highly learned (men) of the division called Paganur-kugram,—a well-watered land of extensive paddy fields, where the heatles buzzed on cool buds in groves blooming with the Naga and the mango (trees),—being desirous of completing a (Vedic) sacrifice begun (by him), through (the favour of) the adhiraja of the Pandyas called Palyagamud-ukudumi-Peruvaludi, who dispersed the crowd of the enemy kings by leading numbers of ferocious elephants (against them), the kēlvi-Brāhmanas, in presence (of the king) saying

¹ Those are the gifts which kings are expected to make on their coronation or on obtaining conspicuous victory in battles. They were also explatory in character. See below, v 18

I he nature of the celestial tree is to give whatever is wanted and the hands of the king were giving away gifts on a very liberal scale. To give enemy kings heaven means to kill them on the battle field and by so doing to send them to heaven.

- "Please hear (O king)" explained the petition (of Narkorran), stood in front of the sacrificial hall and blessed that spot to grow in prosperity under the name Volvikudi.1
- (L 38) The king at once gave it with libations of water and it was since long (10) enjoyed
- (L 39) Then a Kali2 king named Kalabhran took possession of the extensive earth driving away numberless great kings (adhiraja) and resumed the (village mentioned) above
- (L 40) After that, like the sun rising from the expansive ocean, the Pandyadhiraja. named Kadungon, the lord of the South of sharp javelin who were (the cloak of) dignity and was the leader of an army, sprang forth, occupied (the throne), spreading round him the brilliant splendour of (his) expanding rays (prowess), destroyed the rings of the extensive earth surrounded by the sea together with (their) strongholds and (their) fame, wielded the sceptre (of justice) and removed by his strength the evil destiny of the godders of Earth whose splendour deserved to be under the shade of (his) white umbrella, by terminating by his strength3 the possession of her under others and establishing her in his own possession in the approved manner and destroyed the shining cities of kings who would not submit to him.
- (L 46) Then came his son Avanichülamanı Marayarman, who removed the common ownership of the earth (by making it his own), who was wedded to the goddess (born) of the flower (1 e, Lakshmi), the leader of a faultless army of fighting spearsmen, and the infuriated elephant who destroyed by rll (possible) means the power (of cnemy Lings)
- (L 48) Then came his son, a lovely one and incomparable, the just ruler, Seliyan Vanavan, Sendan, the lord of the hill-chiefs who throw weapons (devterously), who removed the spots from the goddess of the earth, who became well known by his prowers and who possessed long hands (holding) the bow, and furious elephants
- (L 51) Then to him (was) born, a son,5 Arikēsari, Asamasaman árī-Māraverman, whose high jewelled crown was adorned with ornamental hangings, who, like the brilliant Sun from the middle of the eastern mountain, came out spreading his rays, causing the quarters to tremble, won the battle at Palı by driving into the field of battle caparisoned elephants, conquered the ocean-like army of Vilvēlie in the battle of Nelvēli; destroyed the Pararas who did not seek refuge by approaching him, annihilated the race of the people of Kuru-naqu where crowds of beetles abounded on all sides, won a victory at the battle of Sennilam by driving into battle (a herd of) elephants of strong trunks, conquered many a time during the day, in the terrible battle-field of Puliyur of strongly fortified walls, the Kerala (king) whose matchless sway (extended) over the whole earth together with (lis) near relations and their clephants and captured them alive7, marched against, attacked and destroyed unopposed the sea of weapons, and the high mountains (of that country), performed many times on earth (the gifts called) hiranya-garbha and tulābhāra, and gave (the same) with pleasure to Brāhmans and the infirm inviting them to come and assemble

In blessing it, they actually suggested that the king might grant the village to the Brahman Narkorran under the name Vēlvikudi.

² Mr K V Lakshmana Rao, M A, has suggested in an article entitled 'The Kopparam Plates of Pulakesin II, contributed to the Annals of the Bhandarkar Institute, Vol IV, Part I, pp 43 to 54, that Kals-kula occurring flure in text-1 8 is possibly a reference to the Kalabhras He seems to be right, for the phrase Kalabhran=ennun= Kalı arassan m l 40 of the Vēlvikudi Plates properly translated means 'a Kalı king named Kalabhra'

^{*} Tiravidin is interpreted by Pandit R Raghava Aijengar of Ramnad to mean by his strength

As usual this 'spot' of the earth is her being in possession of kings other than himself

Dr Winslow gives under vals, the phrace valutionzal in the sense of 'a son'

Dr Krisbnaswami Aiyyangar holds the view that Vil-veli means 'a hedge of bows,' but here it must refer to a nume

The word -iravāmai is explained by Paudit Raghava Aiyengar of Ramnad to mean ' in a moment'

- (L 62) Then (came) his son King Sadaiyan, the lord of Kongas, whose javelins were long, brilliant and destructive, who was (also called) Tennan Vāṇavan, Sembiyan, Sōlan, king of kings, the beautiful Karunātakan, who with the victorious javelin in his right (hand), fought and destroyed the glory of the ocean-like army that came forth at Marudūr and capturing Āyavēl, attacked and destroyed him completely, gained victories in battles at Sengodi and Pudāṇkōdu, and brought his (i e, Āyavēl's) anger to an end, at the great city called Mangalapura, where the peacock danced with the cuckoo near tanks perfumed with opening flowers, attacked and destroyed the Mahārathas; removed the word "common property" (with reference to) the country (bordering) on the roaring sea, administered justice tempered with mercy and ruled the earth with love, having reached the slopes of the high and permanent mountain (Mēru) and cut on the broad face of it the bow, the tiger and the fish
- (L 71) Then (came) his son Ter-Maran (1.6, Maran of the horse-charlot) the king of kings. a member of the Pandya (Tennavar) family, the proud possessor of the white parasol, who in order to acquire the goddess of the earth, carried in his right hand the awe-inspiring javelin and driving (forth) mast elephants (into the battlefield), defeated straightway at Neduvayal his opponents, who had rushed in great haste (against him), suppressed the rage of those whose minds were filled with anger (against him), at Kurumadai, destroyed the power of (the enemies) who confronted him at Minnikurichehi and Tirumangai; saw the backs of the insubordinate (chiefs) who advanced towards him with an oceau-like army, at Püvalür; captured the fiery steeds, the black elephants and the sharp missiles of enemies at Kodumbälür which had high ramparts and deep tienches (round it), deprived the splendour of the Pallava (king) . at Kulumbür and took numberless huge elephants and horses, humbled at Periyalür the greatness of those who had come to cut him asunder not bearing (to see his greatness), crossed the Kaviri (with its) groves (of trees) and tanks of budding flowers: subjugated Mala-Kongam with (the help of his) beautiful long bow; proceeded and reached Pandikkodumidi of high fortifications, beautiful with the lustic emanating from brilliant gems, prostrated at and worshipped the lotus feet of Pasupati (Siva), gave away with great pleasure heaps of gold and lustious gems, contracted relationship with Gangaraja, who wore garlands of sweet-scented flowers, and performing on earth countless (gifts of) Gosahasra, himmyagarbha and tuläbhara, relieved the distress of (the Brahmanas) who studied the Vedas. renewed the palaces and the high ramparts (of the capital towns) named Kūdal (10, Madura), Vañji (Kaiŭi) and Köli (Uraiyūi) and ruled the whole earth (bounded) by the loaring ocean
- (L 88) Then (came) his son Nedunjadaiyan, the king of the Neriyar (ie, the Cholas), who (wore) a high crown covered with flowers and gems, who kept (his) council secret, who was respected for his virtues (and possessed) an army of battalions (as extensive) as the rising noisy ocean, who was afraid of (committing) sins, who had no wants, who was the lover of the learned (Panditavatsala), death to his enemies (Parantaka), a Partha (ie, Aljuna) in (wielding) the bow, clever in his designs, cruel to the wicked, the enemy of the Kali (age) (Kalippagai), the performer of noble deeds, the abode of mercy, a Kinnara in music, firm as mountain, the smasher of heroes, he who equalled Manu, whose commands were obeyed, who was strong as

¹ The king having conquered the Chēra and the Chōla, apparently appropriated their crests also, viz, the bow and the tiger and their titles Vānavan, Śembiyan and Śōlan

² The word eyennama: is translated tentatively.

^{*} Sen-god; and pudan-koffu may have to be interpreted in the sense of 'brilliant flag' and 'brand new drum'
(P), which perhaps were the boast of the Ayavel

⁴ Ie made it a'l his own

We must understand after ennum, some word like nagarangain But it is also possible that mada mamadel is a recognised term (rūdha-nāma) for a capital town with palaces and fortifications, of the term as it occurs in l, 104

wind, the foremost of the valuant, marter of heroism, renoward for good believe one, free from (all) blemish, Punappüliyen, Sincoheholan, Srivare, the perturb of Sri (see, Lakelimi), the Tennan (i.e., Pandya) and Vanaven (i.e., Chem) I when long but d bulls the bow and whose one word (of commend) was recepted by the carb (learned by) the noisy sets, who appeared in the form of Vishnu with victory times told? prove ting the earth under his cool white umbrella, well praced by the godders of the force (or lakehmi). the goddess of the earth and the goddess of the tongue (i.e., Sarasanti), . in larger his rule to brilliantly that the strength of the lord of Kali was weakened; who is the leattle of Pennagadam (surrounded by) an expanse of water and flowery grover and (eleated) on the existent, bank of the Kaveri of blooming flowers and well-water of poldy held, defeated the Kidara (king), who inconsiderately came and attracted (lim) with his four-fold by army spread on all sides of the extensive earth girt by the black ocean, and drove (him) into the forest; and who crushing and driving in a fierce bittle the Aya-Vel and the Eurumbas that came and retucked (him) in great numbers, advanced with hery spears and gained a victory over their in a lattle at Nattukkurumbu (ee, Kurumbu-nadu) (eo that they) sought shelter in formis for (their) fortifications

(L 103) While the third year of the reign of this (king) was current, one (parisonlar) day a bystander of Kudal (1 c, Madure) (the city of) marsions and high ramports, having cried out (by way of complaint)3, the king himself at once called him mildly and was planted to ask him first "what is your complaint" The bystander submitted thus "Oh! Mighty ring of powerful army! Formerly without swerving from the pure (path) prescribed by law, (the village) called Vēļvikudi included in Pāgaņūr-kūrram, whose flowery groves touched the sky was designated Velvikudi and was granted through the Iilii (Brahmars) by your aneastor, the great lord known as Palyagamudukudumi-Peruvaludi, who protected (the earth) girt by the ocean with an army of spearsmen who never miss (their aim). It has (times) been resumed by the ignoble (yet) ocean-like army of the Kalabhras" The king gently smiled and said. "Very well, very well, prove your antiquity (of the gift) by (a reference to) the district (assembly) and receive (it back)" He (the supplicant) proved then and there, the antiquity of his (claim) by (a reference to) the district (assembly) Thereupon the powerful ring, of long arms holding the bow, being overjoyed was pleased to declare "what was granted formerly by my ancestor according to rule, is also granted by Us," and so saying he, of (many) chariots and occun-like army, gave (it) with libetions of water to Kamakkani Narchingan, the herdman of Korkai

(L 118). The four big boundaries of this (village) given in full detail are —(The cartern boundary is) to the west of the boundary of Nagarur surrounded on (all) sides by faultless flower-gardens. The southern boundary of this (is) to the north of the field (called) Külvandai-fity of Kulandëvan and of the banyan tree in the Kalandai pond. The western boundary of this (is) to the east of the mound (peruppu) on the western side of the field (called) Odumniyiruppai-fey of the faultless Korranputtur. And the northern boundary of this (is) to the south of the mound on the northern side of (the village of) Päyal where lotuses grow in canals.

(I. 124). The land included within the four big boundaries thus described is also given away by us, inclusive of kārānmai and mīyātchi, in the same manner as it had been given formerly by our ancestors

(L 126) The anatti of this (grant) correctly described is Madavikalan, Marangari, the crest-jewel of the Vaidyaka family entitled Müvendamahgalapperaraiyan who was favoured by the king of kings, whose army fought powerfully like a thunderbolt, in battles where

¹ See foot-note 1 on p 807, above.

² Gan peopos su colluin could not be estimactorily interpreted.

I have taken ükrödhikka to stand for ükröfikka from root kref with the prefix ä; see Nasskielkaksing h. I, v. 81, weere ä-krufyafa is explaired 'eried out in order to expose a mistake committed'

machines shaped like wild hogs (ēnappori) killed (the enemies) in (close) fight with (drawn) swords when the kings of the east (Pūrvarājar) possessing clamorous battalions of fighting men rose up, and put to flight with (great) loss in an infantry attack at Venbai, the Vallabha of a vast army of archers, on the occasion when the excellent daughter of Gangarāja who wore a garland of highly scented flowers (dribbling) honey was secured and offered to Kongarkön (i.e., the Pāṇḍja king), who was a prince of the race of Karavandapurattavar, who possessed a powerful and big army that crushed the pride of those who came to fight being (thether) brough; together by (i.e., under the leadership of) kings wearing many bracelets and possessing an army of spearsmen who wielded deadly weapons

- (L 131). Kāmakkāni Šuvaraņ Šingan, the headman of Korkai, who owns this brahmadēya reserving for himself one-third of this (village), gave the (remaining) two parts to fifty Brahmanas with libations of water. In this are included the four and a half padāgāras (of land) of Mārti Eyin in approved by the (village) assembly. And in the part reserved for himself in this (village) he gave with the approval of the (village) assembly four padāgāras to his younger brothers and six padāgāras to his younger paternal uncle's children. And the owners of the three parts with their united approval gave four padāgāras (of land) to the general (Senāpati) Ēnādi alias Šāttan Šāttan, who composed² this eulogy (prašasi)
- (V 18) The ajnapti of this (document) was Mangalaraja, the very sweet (madhuratara) poet (kan) and orator, well versed in the sciences, a Vaidya and a resident of Karavandapura.
- (V 19) Oh! Dharma! A (learned) man must render protection to the deeds of others. Indeed (these are) the feet acquired by (i.e., on which stands) great fame. The world was all created by Dhātri (Brahman). Still kings desirous of merit protect the earth.
- (V 20) No gift is greater than the gift of land, nor is there a greater sin enjoined (on man) than (that of) resuming land (already given)
- (V. 21). Oh! Gladdener of your race! He that makes a gift on this earth blesses (his) ten generations past and future; and he that takes away (that which has been given) destroys ten generations past and future
- (V 22) To him that robs land given by himself or by others, there is no explation-anywhere except in the dreadful hell
- (V. 23) Lands have been given away by many. Different kings are ruling (them). The fruit (of protection) belongs to him whose land it happens to be (at the time). These four are verses in the Vaishnava-Dharms
- (L. 151) "The flower-like feet of those who protect this (charity) shall be on my crown" The king himself was thus pleased to say and caused a copper-plate grant to be executed at once.
- (L 152.) Suttakësari-pPerumbanankkaran who engraved this (document), and to whom were alletted through the favour of the great mon (of the village) one house site, two mā of (wet) field and one³ dry field received (the above). This is the signature of Yuddhakësari-perumbanankka[ra]n.

Recentore, p 307. If we took Kongarkon as referring to the king of the Kongas, the reason for Maraigira taking part with the Konga king will have to be explained. So far as we know, the Konga king was an enemy of the Pânlya and was on several occasions defeated by him

The word paging clearly indicates that the composition was in verse.

[.] Perhaps one ma.

the reading in the other document also, the sense being that as this king furnishes a living example people have to believe in the historical reality of the ruleis like Prithu, Sagara, etc The remaining two words, as is shown by this plate where they occur in line 35 and line 42, respectively, were correctly read by him

The charter was issued by the devout worshipper of Sugata or Buddha, the Paramesvara-Paramabhailāraka and Mahārājādhirāja, the illustrious Dēvapāladēva, the son aud successor of Dharmapala, who is regarded to have been the most powerful of the Pala kings of Bengal As I have just stated, its introductory portion is identical with that of the other grant and gives the genealogy of the donor which has already been discussed by scholars The formal part of the grant, which the inscription registers, is worth considering The wording is the same as we find in the other document. The officials mentioned are also similar, including the "Pramatri" and the "Sarabhanga", excepting the "Prantapala" who is left out, though the order in which they are named is different. Amongst the names of the countries mentioned in line 35 of the Mungir (Monghyr) plate, this inscription puts Odia in place of Gauda and omits Lafa altogether. Herein we are told that Dorapaladeva at the request of the illustrious Balaputradeva the ruler of Suvarnnadvipa, made through an ambassador, granted five villages, four of which lay in the Rajagrilia (Rajgir) and one in the Gaya ushaya (district) of the Sri-Nagarabhukti (Paina Division) for the increase of ment and fame of his parents and himself for the sake of income toward the blessed Lord Buddha, for various comforts of the revered blikshus of the four quarters and for writing the dharma-rainas or Buddhist texts (i.e. for the three jewels) and for the upkeep of the monastery built at Nalanda at the instance of the said The endowment, being entirely Buddhist, forms a distinctive feature king of Suvaranadvipa of the grant and amply justifies the epithet of parama-Saugata applied to the donor villages granted in the Rajagriha vishaya were Nandivanaka, Manivataka, Natika and Hastigrama and the one in the Gaza vishaya was called Palamaka case in such grants, this part of the document ends with the date of the endowment which is the 21st day of Kartika of the (regnal) year 39 and is written after the orders of the royal donor demanding regular payment of all the revenues due for the purposes noted above

The second side of the plate first gives the well-known imprecatory and benedictory verses and, thereafter, introduces Balavarmman who acted as the dutake in this 'meritorious undertaking' and whom it describes as the 'overlord of Vyaghratati-mandala, ever leady to fight his foce independently' Evidently he was the official of the King of Magadha entirested with all arrangements to be made in connection with the grant Then the inscription supplies, though unfortunately too meagre, an account of Balaputradeva, the king of Suvaranadvira at whose instance the endowment was made giving, also, some information regarding his ancestry. It is mainly in this connection that this document is specially interesting and possesses considerable international value. We learn that the dynasty to which Balaputra belonged was that of the Sailendras, who were Buddhists and held the island of Java under their sway about the eighth century of the Christian era or the Saka year 700 The latter fact about the Sailendras is already known from the Kalasan inscription which has been published by Dr. (now Sn) R. G Bhandarkarl and Di J L A Brandes2 But this Nalanda copper-plate introduces to history for the first time śri-Belaputradeva, 'the Sailendra King of Suvarnnadvipa together with some of his relations, as well as the  $d\bar{u}taka$  (of the grant), namely, Balavarmman

The illustrious Mahārāja Bālaputradēva, our inscription tells us, was the overlord of Suvarnadvipa. His mother was Tārā, the daughter of a King Dharmasētu of the lunar race and

I Journal of the Bombay Branch of the Royal Assatro Society, Vol XVII, Part II, for 1887, Art I.

The Tydsorift voor de Taal,-Landen-Volkenkunde van Nederlandsch Indië, XXXI (1886), p 240 sq.

the queen consort of the mighty king who was the con of the renewned rater of "Xavebhami." The latter, we are told, was the orn ment of the Soilendra dynasty and this name was conformable to the illustrious crusher or tormentor of his broke enemies.'. Though the epigraph gives h gh praises for all these rulers, yet it contains no other information regarding their identity. The name of the fither of Balaputradiva is not given at all but the name of the grandfather is said to have been something like 'Sri-tira-vairi-mathena', meaning 'the illustrious destroyer of heroic fees' This would lead us to surmise that the name much have been one like Parary arddi-dēva, Šatranjaya, Arimarddana, Arindania, etc., but what it really was I am not in a position to find out. The Yavabhumi and the Suvarnnadvipa are evidently identical with the Yavadvipa and the Suvarnnadvipa islands spoken of in Sanskrit works I be the Romananal or the Kathasaritsagaras and are unquestionably the modern Java and Samatra While speaking of Balaputradeva as the Ling of Suvaranadvipa and his grandfather as the ruler of Yavabhumi, the author of our inscription, apparently, took both the islands as one considering them practically united As M. Duroiselle kindly tells me, the convenue of opinion, arrived at by scholars like Barth and Kern, is that Suvarnindilpa and Yavadilpa are the same, that is Java-Sumatra The document goes to confirm the view that Yavadvīpa is Java proper and that Suvarnnadvipa is properly Sumatra This Suvarnnadvipa, however, is different from the Suvaranabhumi, which, as M. Duroiselle has kindly informed ric, in its most extended sense refers to Indo-China, but, particularly, to the country extending beyond the eastern and northern coasts of the Bay of Bengal or Ramañandesa (1 c, lower Burma)

Now the question which would present itself for golution is, who were the Sailondras mentioned in the plate? There are only two Javanese inscriptions in Nagari, known to me, which were issued by a king of the Sailendra dynasty One of them, to which I have alluded above, commemorates the foundation of a temple of Tara, the well-known Goddess of the Mahayana pantheon, the setting up of her image, and the building of a monastery in the year 700 of the Sala era during the prosperous reign of a king of this dynasty' whose name to our regret is not forthcoming The other inscription is not yet published and the following information regarding it I owe to the courtesy of Dr Bosch, Director of Archeology in Netherlands-India. It comes from Klurak, a site between the Prambanam and Sewu-temples in Central Java and belongs to the Saka year 704, the object being to commemorate the erection of an image of Manjusil, another noted divinity of the Mahayana pantheon. In one of the lines of this inscription Dr Besch reads rajñā dhritā dhritinatā dharanindranāmnā and finds the king's name to be Indra, though one could take it to be Dharanindra (cirthly Indra) as well. Yet another inscription I know of, which is connected with this evasive race of the Sailandras, comes not from Java but from India and, like our Nalanda inscription, records the erection of a monastery and an endowment for it. It is engraved on twenty-one copper-plates now preserved in the Leyden Museum in Holland and belongs to the reign of the Chola King Rajaraja-Rajakësari-This highly interesting document tells us that the illustrious king Maravijayottungavarmman of the Sailendra dynasty and the lord of Srivijaya caused to

¹ Canto 1V, Chap XL, St. 30, and the *Telaka* commentary on these verses. Here we find that Java in remote antiquity formed a large principality which comprised not less than seven minor states.

[ा]उदे प्रदेशाने राज गोरी-द्रवज तिस्त्र Dr Bhandarkar read in the sixth line of this inscription SailEndraname he took to be Panamkarana The correct reading, however, as the late Dr J. L A. Brandes has Execut these two saidendrawamas.

Except these two inscriptions there exists a number of fragments of inscribed slabs, which according to Dr. Besch, might be attributed to the Sulendra race but they are all too weather-worn to be deciphered 1.231).

1. 231).

be built a lofty and very beautiful monastery at Wagapattana, the present port of Negapatami and that it was endowed by the Chola king Rajaraja, thus furnishing an exact parallel to the NEhanda monastery of our plate? This Śrivijaya is the same as the San-fo-tsai of the Chinese Annals and, according to M. George Coedes, must be identified with the kingdom of Srivijaya or Palembang, which is a residency of Sumatra 3 The Leyden great says that Māravijayottahgavarmman was the overlord (adhipati) of Śrīvijaya who, while extending the Lingdom of Kataha, caused that monastery to be built in the name of his father. Thus on the authority of this invaluable record it becomes clear that, about the end of the 10th century A. U., Sumaira was governed by the Sailendra dynasty to which king Miravijayottungavarmman or his father Chiidamanivarmman belonged That both Sumatra and Java were under the sway of the Sailendras about the ninth century we glean from the Nalanda conner-plate inscription That they were governed by the same dynasty in the seventh century of the Christian era we learn from the two inscriptions to which I have referred above. In one of the inscriptions' engraved on the south wall of the well-known temple at Tanjore we find that Rajondra-Chola caught a king of Kadaram, named Sangramavijayöttungavarmman, and took his vehicles as well as accumulated treasure. This king of Kadaram in the light the Leyden grant was, probably, the successor of Maravijayottungavarmman, the Sailendra king of Srivijaya spoken of in it. If the Tanjore inscription is to be trusted-I do not think there is any reason why it should not be-we can say that Rajendra-Chois, while capturing the king, succeeded in conquering the kingdom of Srivijaya or Palembang The Leyden plates tell us that he confirmed the grant made by his father Rejaraja for the monastery built by the Sailendra king Maravijayottangavarmman or the predecessor of the very ruler whom he caught and dispossessed of heaps of treasures. This would lead us to surmise that Sangramavijayottungavarmman proved refractory and the Chola King had to take the extreme step to bring him round. Here it may be remarked that in the documents, known at present, these Sailendras or the rulers of Srivijaya are no where mentioned as the feudatories of the Cholas or other Indian kings. Building convents or viheres in one's territory does not necessarily indicate tutelages though it does show friendship or mutual regard. That the Sailendras founded monastenes in India at Nalanda or elsewhere certainly signifies their being fervent Buddhists. These viharus, like the one founded at Bodh Gaya by Meghavaron of Ceylon during the Gupta epoch, gave shelter to their own people as well as others Devapsladeva was a staunch Buddhist. He endowed the monastery, which Balaputradova, the Javanese King, founded at Nalanda, at the latter's express request, communicated to him through a dutaka or ambassador. But this fact alone cannot imply that the ruler of Java was a vassal of the King of Magadha. Though the capture of the King of Kadaram by Rajendra-Cholain later days indicates submission no doubt, yet I think, to show that the Sailcadras were really the feudatories of the Cholas, proof is still wanting. Under the existing circumstances what we can safely assume is that the relations of these Kings were rather based on trade and traffic and were of a peaceful nature.

¹ It was probably this structure, which, as the late Mr. Smith has said in his Eurly History of India, 3rd ed, p, 466, survived in a ruinous condition until 1867, when the remains of it were pulled down by the Jesuit fathers and utilised tor the construction of Christian bu ldings.

The splendid convent built by King Maghavanas of Ceylon at Both-Gaya mear the hely Bidhidruma about the year A. D. 380 with the permission of Baundragupta, the Great, affords another justance of this kind. For a brust account of it see Smith's Ancient History of India, 3rd ed., p 287.

² Encyclopadua Britanuca, XI ed., Vol. XXVI, p. 73. For mention of Brivijaya in an old Malaya inscription probably of the 7th Century A. D., lately found in Palembang, no. Ph. S. Van Ronkeb's notice in the Acta Orientalia, Vol. 11, Part I, p. 21

⁴ South-Indian Inscriptions, Vol II, pp. 105 ff.
5 The late Mr. Venkayys (A. S. B., 1911-13, p. 175), apparently, assumed that the Saliendra, were fradatory to the Chola Kings.

connection with the Chini family! It is also noteworthy that sometimes their names end in From the 14 ords noticed above we find that the names of the Sailendias of Java-Sumstra or Silvipra ended in ranmon 3 The name of the Sailondra ruler given in the Naland's plate on the other hand ends in dera This looks rather strange The name Balapaten itself, signifying 'young son' is curious. This ending of deta, however, occurs only in the prese and formal portion but not in the other or neurcal portion, which describes and culogists then Suilendras. This would go to suggest that the suffix was left out because the movee did not require it, or resulty because it did not form an integral part of the name and would lave leen replaced by tarmman, a general suffix or surname of the ruling caste or the Kelistryne. The name, however, is pure Sanskit as is the name of Taia the mother of Bilaputrackyn, or Dharmasetu, ber father, and would point to emigration from India. Had the sames of the two ancestors of Balaputradeva, that is to say, his father and grandfather, been given we could be definite in the natter, for, if these names were un-Indian, as in the care of Kunlings, his son Afraniman and ginudson Mülavaiman of Borneo, we could conclude that the Smoker mames must have been taken after conversion to Hinduism, or rath: Buddlesm Bi tim none of the names of the Sailendras do we find any foreign sound at all, sugge ting that they were the na ives of the islands originally and came into the fold of Bud linean afterwards

The names of the Päla kings and other personages mentioned in the introductory portion of this grant have been dealt with by Kielhoin or other scholars in connection with the contents of the Mungli copper-plate inscription. So I need not notice them here. But, besides them and the Śailčudris, our record speaks of two more persons and they require special mention. One of them is Dharmasčtu whom the inscription describes as a scion of the Lunar race and the father of Bülaputradēva's mother, namely, Tāiā. To our regret it does not supply any other particular regarding him and it is hardly possible to identify him or to say

Mr. K. V Sabrahmanya Ayyar, to whom I am indebted for this information, has kindly given me the following note on the Malayamars —

"Ancient Tamil worls mention the names of a number of Malajaman eliefs, who might be attributed to the 7th and 8th centuries A. D. Some of these are —(1) Malajumān Irinmuhikkāri, (2) Malajumān Śchya-Łnādi Tirnkannan, (3) Malādar-Kōmān Neyppornļ-Nāyanār and Karafinga-Munajyarijar of Tirumuhanppāh. Their capital was Tirnkollur, the head quarters of a faluk in the South Arcot district and a railway-station in the Katpāḍi-Viji puram section of the South Indian Railway. It is said to have been situated within the Chēdi country.

The Malsiyaman chiefs appear to have been rendering help to one or the other of the principal powers of the South, viz, the Cho a, Chola, Pandya and the Pallara. Narasingamunayarayar was a contemporary of the Saiva sairt Sundara-Mūrti-Nayanār of the 8th century A D he is counted as one of the canonised 63 Saiva devotees of the Tamil country. In the account given of No 3, in the Tamil hagiology, Persyapuiānam figures a Tatton, whose name may be regarded as a variant of Datta. Resides, one of the poems of the Tamil authology, Pattuppātļu was composed in honour of a cortain "Ārya king Piragadattan (Bhrigu-Datta)". It may be noted that the Malsiyamān chiefs beloi ged to the Bhrigu race as is evidenced by their inscriptions Epigraj lucal reference to Narasinhiamunayarayar is found in the Tanjore inscriptions of the Chola. King Rūjarāja I (A D. 985 1013). In an early stone record of hājakēserivarinan found at Tirunāgēsvaram nest Kumbakonam, of about the 9th century A D mention is made of Milādudaiyar-palļi

It is interesting to note that the later members of the Malairaman family, who figure in numerous stone inscriptions, call themselves invariably Childiyarayas (Cledirajas) and they are mostly subordinates of the Chölas of the 10th to the 13th certures A D. The appellation Chēdiyarāyan, assumed by almost all the chiefs, if it is not a were accident, as it could not be, must indicate that they were the rulers of the Chödi country. This fact taken with the names like Daita would make one infor a colonisation at some remote past of a branch of the line of Chēdi Kings, in the South Arcot district, where we find them."

* E Hultzsch, Ep. Ind , Vol VII, pp 185 and 145

*Dr. Vogel in the aforeshid publication (page 191) remarks —"Considering that among the dynasties of India proper there is a great variety of such royal surnames, as āditya, gupta, chandry, devapala, rātu, vardhana simha, and sēna, the a'most universal employment of names in taimman in the fir East a certainly very remarkable." The instance of our Balaputradita will furnish an exception

2 x

whether he was an Indian king or some ruler in the Far East The name whether it is read as Dharma or Varma-sētu appears to be new The other interesting name occurring in the document is that of Balavarmman the ruler of Vyaghratati-mandala, who acted as dutaka on behalf of the Magadhan king. As to why he was selected or what special connection he had with the ruler of such a remote island as Sumatra or Java, and whether he had been there or known personally to that king our inscription makes no mention Apparently, there was no direct political relationship between the two, for, we know from the Khalimpurl plate of Dharmapāladēva that the Vyāghratatīmandala lay within the bhukti of Pundravardhana, which was under the sway of the Pala king Dharmapala and, evidently, of Devapaladeva after him. Pundravardhana is the same as Paundravardhana-Pundra and Paundra being synonymous-which is the modern Rajshahi district of Bengal?. The use of the word adhipati would indicate that in this instance at least the term mandala connotes a larger area than vishaya, which in the majority of cases seems to include a mandala3. During the reign of Dēvapāladēva, Vyāghratatī was governed by a distinct ruler called Balavarmman. The way in which he is praised in this epigraph, as the right arm of the Emperor. would show that he had a high rank even though he was one of the feudatories of Devapaladeva As, however, our plate gives no genealogy or particulars about him his personality is very vague. A few homonymous rulers are known to have flourished about that time but they appear to be quite different personages and even their dates will not agree with that of this plate It looks currous that though the charter mentions the dutaka of the King of Magadha yet it leaves the ambassador or ambassadors of the Javanese King unnamed altogether.

The vague manner in which the inscription describes the rulers of the Far East or Sumatra-Java and their relative king of the lunar race would show that its author did not know much of them. He knew of Balaputradeva and his mother Tara. The latter he compared to the goddess of that name. It is not improbable that the grant registered in the epigraph was made chiefly at her instance.

Our plate mentions several places calling for remarks Out of these, I have already noticed three, namely, Suvaranadrīpa, Yarabhūmi, and Vyāghratati Of the remaining ones Nālandā is the most important. The way, in which this record speaks of it, would show that it continued to be as important a centre of Buddhist lore as it was during the time of Hiuen Tsang's visit. The spelling of the name given in this document is Nālandā which is the correct way of writing it. The same spelling is given in a votive inscription on the image of

¹ Zp. Ind., Vol. IV, pp 243 ff J B R A. S, LXIII (1894), pp. 39 ff.

^{*} Smith Early History of India, p. 378. As has already been stated by Cunningham (A S R, Vol. XV, pp. 112 II.) Käntära is another name of Pundra or Paundra, e.e., sugarcane, and the Mahākāntāra of the Allahabad inscription of Samudragupta, the Grest, was probably an older name of this province which, about the middle of the fourth century of the Christian era, was governed by a King Vyāghra. Thus it does not appear to be improbable that the district of Vyāghratafī or the tiger's precipies—unless of course vyāghra is taken in the sense of castor oil in which case the word Vyaghratafī would be the slope marked or overgrown with castor plants,—was named after this tiger king.

This would rather show that no mistake was made in the text of the Khalimpur grant and that Kielhorn's statement in the Ep. Ind., Vol. IV, p 258, footnote 3 that it was, will be obviated

^{*}Pôr instance we know of a Balavarman, the lord of Prāgjyōtisha (Gauhati or Assam) from the Nowgong copper-plate (Ur A F. Hoerale, J. B. A. 8 LXVI, pp 285 ff.) and another of Kārūsha or rather Bṛhadgṛha (Kielborn, Iād. Ant Vol. XX, pp 123 ff). On palæographic grounds the former of the two has been assigned to the last quarter of the 10th century or say nearly one century later than the date of Dēvapāladēva. The other is too hitle known to admit of identification. The third raler of the name, who will synchronise with our document, was the father of Avantivarman II, who was the fendatory of Mahēndrapāla of Kannuj (cir. 890 A. D.). To think al identifying him with the Balavarman of the Nālaudā plate will be altogether nureasonable, for he was the ruler of Kathiawar, or Baurāshipa and a fendatory of the formidable rival of the monarch of Bangal.

Sankarshana which was dug out of the same site and the newly discovered statue of Tārā. It again occurs not only in some Jama writings but such an old work as the Dighanikāya². However, it seems to be noteworthy that none of these works called Nālandā a university but only a prosperous town though Hinen Tsang describes it as if it were a University The way in which it is de-cribed in our plate would show that it was really a centre of Buddhist learning

As to the remaining place-names mentioned in this document, I think, Srīnagara or Srīnagara-bhukti must be identified with modern Patna, which as a district, includes Rājagriha (Rājgir) and, as a division or commissionership, comprises the district of Gayā, even now. It is true that in the Khalimpur grant of Dharmapāladēva, which has been referied to above, the name given for the city is Pātaliputra and not Śrīnagara or Nagara, still, I think, there were two disignations, the one, viz, Pātaliputra, which meant the whole town and the other, viz., Śrīnagara, the main part of it, like the Bankipore of to-day. Nagara means the chief town generally, but in this case it meant the town, the prefix Śrī implying prosperity or wealth of the town. In other words Pāṭaliputra was the pattana³ and the seat of Government, especially in earlier days during the supremacy of the Mauryas or the Imperial Guptus,⁴ lay there, and Śrīnagara was its principal portion where the office of the bhukṭi or division was situated. One was concerned with the whole government but the other only with eight hundred⁵ villages coming in its jurisdiction or bhukti. Thus Śrīnagara must have been a part of the whole which was termed Pātaliputra ⁶ That, apparently, is the reason why the latter and not the former appellation of the town is to be met with in literature.

That Rajagriha and Gaya are respectively the Rajgir and Gaya of to-day requires no demonstration. The latter is a district still, though the former has now dwindled into a luined town of the Bihar subdivision of Patna.

Regarding the villages which formed the object of the grant or endowment registered in the charter, we are told that Nandivanāka and Maņivātaka were situated in the Ajapura-naya subdivision, Natikā in the Pilipinkā, and Hastigrāma in the Achalā-naya or subdivision of the Rājagņha vishaya or district, and that Pālāmaka was situated in the Kumudasūtra vīthī, a subdivision of the Gayā district. If similarity of sound can be depended on, I would propose the following identifications to which proximity of Nālandā will lend a great support. The Ajapura 'naya' or subdivision of the inscription may possibly be represented by the Ajaipur? village in the Ajai Hisse Chahāram Mauzā in the Bihār Thānā and the two villages Nandivanāka and Maṇivāṭaka, granted in it, would be the Nsdiune or Naunvan and Manian-wan villages of these days, which are included in the Bihār Thānā. Pilipinkā I am inclined to identify with the Pilkhi or Pilkee Mauza and the Nṣṭikā village with the Nsi Pokhar of to-day, both lying in the Silāo Thānā. Though I am unable to offer any identification for the ancient Achalā yet, I fancy, the village Hasti or Hastigrāma of the grant might be the Bethoa Bīghā village of the Bihār Thānā if not the Hathi Toļā of the Maner Police subdivision. The old village directory⁸ of the Gayā district available to me does not, apparently, give any name

¹ See my Annual Report of the Central Circle, (Patna), for 1921, p. 5 and J B B. O. R S, Vol X, pp. 80 ff

² Vol I pp. 1 & 211-12

^{*} Cf. 'प्रधानभूत नगरम्', Bharata quoted in the Śabdakalpadruma under Nagara.

⁴ Cf प्राणं यत राजधानी स्थिता and जगरमध्यतग्राममध्ये तद्व्यवद्वारस्थानम् , Yabûdhara m his Jayama sgalā on the Kāmasūtra of Vāteyāyana (N S. Edition), p 44

Even in the Khalimpur grant the exime joya ekandhāt āra, or 'royal camp or headquarters' lay at Eatalipuirs. For the meaning of this expression of. V. Smith; Early History of India, p 898 and footnote 2.

⁸ Similarly, I would identify the nagara-bhukti of the legend on the seal, which, Dr Spooner discovered during his explorations of the site (see his A P R. (E C) for 1916-17, p. 48) with the Śrīnagara-bhukts of this decument

⁷ Village Directory of the Presidency of Bengal, Vol XXVI (Patna District).

Pillage Directory of the Presidency of Bengal, Vol. XXVII (Gnya District).

resembling the Kumudasūtra (or sūnu) or the Palamaka of our record and I refram from offering a conjecture regarding their identity

In connection with these place-rames, it is interesting to note, that our document supplies one or two territorial terms, which appear to be new The term mandala, as I have remarked above, is here used, as in the grant of Amina II,1 in the sense of desa, of which ushaya was a subdivision The word 'vithi', which generally signifies a market, road-way or the like, appears to have been used, in this charter, in the sense of a division smaller than ushaya. Similarly the term 'naya' seems to imply a like division. The use of these terms would show that bhukte was divided into mandalas which were subdivided into rishayas, the latter being again portioned into vithis or nayas? It is noteworthy that our document employs the term naya in the case of Rajagriha ushaya and vithi in the case of Gaya ushaya occurs regularly after (1) Ajapura, (2) Pilipinka and (3) Achala, which lay in the district or eishaya of Rajagriha, while the latter term is to be found in connection with the district or urshaya of Gaya only This would indicate that in the two ushayas, which were so contiguous to each other, there were, probably, different subdivisions made, apparently, for revenue purposes, Rajagriha being subdivided into nayas and Gajā into vithis Thus, we can say that the villages Nandivanāka and Manivātaka lay in the subdivision or naya of Ajapura, Natikā in the naya of Achala, all these falling within the Rajagriha ushaya The village of Palamaka, on the other hand, which belonged to the district or rishaya of Gaya, lay in the subdivision of Kumudasütra, i e., Kumudasütra-vītli 3

#### TEXT. Obverse

Meires used · Sārdālavikiādītam in vv 1, 7, 8, 13, 14, 30, 31, 32, 33, Praharehiņā in vv. 2, 26; Vainsastha in v. 3, Upajāti in v 4, Indravajrā in v 5, Aupachchhandasikam in v 6, Āryā in vv. 9, 11, 22, 23, Harinī in v 10, kathoddhatā in vv 12, 15, Anushtubh in vv. 16, 17, 18, 19, 29, Vasantutīlākā in vv 20, 24, 25, 27, 28, Pushpitāgrā in v. 21, Sragdharā in v. 34.

```
सिद्वार्थस्य परार्थसुस्थित मतेस्मनागम[भ्य]-
2
                                                                       स्रत-
      सिंदिसिंदिमनुत्तरां भगवतस्तस्य प्रजास
3
                                                                      त[।*]
      यस्त्रैधातुक्रसत्वसिद्धिपद्वीरत्युग्रवीर्योदया-
      न्निला
            निर्देतिमाससाद सुगतस्त्रवीर्घभूमीम्बर:- [॥*१॥] सीभाग्यन्दध
ፏ
5
                                                        दत्तलं श्रियसापत्ना
                 पतिरभवद्वसुन्धरायाः
       गोपानः
```

¹ Ind Ant., Vol VII, p 16; cf Pleet, CII, Vol 171, p 32, footnote 7

² It may be noted here that the term rithi is also used in the sense of a division in the Ghughrabati plates of Saracharadeva which have been edited by Mr R D Banery, in the August 1910 number of the Journal of the Assatic Society of Bengal Mr Bhattasal, who is re editing the grant for this journal, seems to take the word ir its vensi sense, but, in the light of this Nalanda document, his rendering cannot hold good

^{*} The reading cap also be supp

⁴ Expressed by a symbol.

Nie'hoen has 'Engo

ह-ष्टान्ते सित क्वतिनां सुराचि यिखान् श्रेष्ठेयाः प्रयुसगरादयीप्यभूवन् [॥२॥] विजित्य येना जलधेर्व्यसुस्पराम्विमीचिता

- 7 स्वाप्यमुद्दाप्यविजीचनान्पुनर्वनेषु व(ब)स्नून्ददृश्यमीतङ्गजाः ॥[२॥*] चलत्ख-नर्वषु व(ब)लेषु यस्य विश्वभरा-
- 8 या निचितं रजोिभः ॥¹ पादप्रचारच्यममन्तरिचम्बिङ्क्षमानां सुचिरम्ब(म्ब)भूत्र ॥[४॥*] शास्त्रार्थभाजा चलतोतुशास्य वर्णाग्मतिष्ठापय-
- 9 ता स्वधम्मे[।*] श्रीधर्मपालेन स्रतेन सीभूत्स्वर्गस्थितानामन्त्रणः पितृणाम् ॥[५॥*] भचले-रिव जङ्गमैर्यदीयैविंचलङ्किद्दिरदैः कदर्थ्यमाना ।
- 10 निरुपप्तवसम्ब(म्ब)रं प्रपेटे शरणं रेखनिमेन भूतधात्रो ॥[६॥*] नेहारे विधिनोपश्चत्रपयसां गंगासमेते मृत्युं। । गोकण्णीदिषु चाप्यनुष्ठि-
- तवतान्तीर्थेषु धम्यीः क्रियाः [।*]
  भ्रत्यानां सुखमेव यस्य सक्तलानुहृत्य दुष्टानिमान्लीकान्साधयती[ऽ*]नुषङ्गलिता
  सिद्धिः परत्रा-
- 12 प्यभूत् ॥[७॥*]

  'तैस्तैदिग्विनयावसानसमये संप्रेषितानां परै: सत्नारैरपनीय खेदमखिलं स्नां
  स्वां गतानां स्वम् [।*] कत्यं भावयतां
- 13 यदीयसुचितं प्रीत्या ऋपाणामभूत् सोलाण्डं ऋदयं दिवस्युतवतां जातिसाराणामिव ॥[८॥*] श्रीपरव(ब)सस्य दुश्चितुः चितिपतिना रा-
- 14 प्रमूट तिस्तस्य।
  रगणादेव्याः पाणिर्जयहे ग्रहमेधिना तेन ॥[८॥*] धततत्तरियं सस्तीः
  साचा त्वितिनु भरीरिणी । तिमवनिपतेः कीर्त्तिमृन

¹ Two strokes in place of one.

² Symbol for Hat the end of a pada is peculiar.

⁸ Kielhorn has संसेता^o.

⁴ This danda could be left out.

⁵ Kielhorn has तेर् तेर् which cannot be correct.

The way of writing the letter z is peculiar.

This danda could be left out.

resembling the Kumudasūtra (or sūnu) or the Pālāmaka of our record and I refrain from offering a conjecture regarding their identity.

In connection with these place-rames, it is interesting to note, that our document supplies one or two territorial terms, which appear to be new The term mandala, as I have remarked above, is here used, as in the grant of Amma II,1 in the sense of desa, of which ushaya was a sabdivision. The word 'vithi', which generally signifies a market, road-way or the like, appears to have been used, in this charter, in the sense of a division smaller than rishaya. Similarly the term 'naya' seems to imply a like division. The use of these terms would show that bhukte was divided into mandalas which were subdivided into tishayas, the latter being again portioned into vithis or nayas? It is noteworthy that our document employs the term naya in the case of Rajagriha vishaya and vithi in the case of Gaya vishaya The former occurs regularly after (1) Ajapura, (2) Pilipinka and (3) Achala, which lay in the district or rishaya of Rajagriha, while the latter term is to be found in connection with the district or urshaya of Gaya only This would indicate that in the two ushayas, which were so contiguous to each other, there were, probably, different subdivisions made, apparently, for revenue purposes, Rājagriba being subdivided into nayas and Gayā into vilhis. Thus, we can say that the villages Nandivanaka and Manivataka lay in the subdivision or naya of Ajapura, Natika in the naya of Achala, all these falling within the Rajagriha rishaya The village of Palamaka, on the other hand, which belonged to the district or reshaya of Gaya, lay in the subdivision of Kumudasütra, 1 e., Kumudasütra-vilhi 3

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'ग्रों सिद्धा । सिद्धार्थस्य परार्थसुस्थित मतेस्तनागीम[भ्य]-
2
                                                                       स्यत-
      सिंहिसिहिमतत्तरां भगवतस्तस्य प्रजास
3
                                                                      त[1*]
      यस्त्रिधातुक्रसलसिंहिपद्वीरत्युग्रवीर्योद्या-
       िचला
            निर्देतिमाससाद सुगतस्त्रवीर्यभूमोश्वर:- [॥ १॥] सीभाग्यन्दध
4
 5
                                                       दत्तलं श्रियस्प्रपत्न्या
               पतिरभवद्वसुन्धरायाः
       गोपात्तः
```

¹ Ind Ant., Vol VII, p 16; cf Fleet, CII., Vol 121, p 32, footnote 7.

It may be noted here that the term rithi is also used in the sense of a division in the Ghughrahati plates of Son acharaders which hav been edited by Mr R D Banery, in the August 1910 number of the Journal of the Asiatic Correty of Bengal Mr Bhattasal, who is resediting the grant for this journal, seems to take the word ir its usual sense, but, in the light of this Nalanda document, his rendering cannot hold good

The reading can also be aff "

Expressed by a symbol

Lie born has Terro

6							₹-	
	ष्टान्ते	सति	न्नतिनां	सुराज्ञि	यिसन्	श्रहेयाः	<b>प्रथुसगरादयोप्य</b> सूवन्	[112*11]
	विजिल	ग री	ता सालाई	विसंस्था	रिवमी चि	ना		

- 7 सीवपरियद्दा इति। सवायमुद्दायविजोचनान्पुनर्वनेषु व(व)स्नून्ददश्रमीतङ्गजाः ॥[१॥*] चलत्ख-नन्तेषु व(व)लेषु यस्य विश्वभरा-
- या निचितं रजोभिः ॥¹ पादप्रचारच्यममन्तरिचम्बिष्टप्रमानां सुचिरम्व(म्ब)भूत्र ॥[४॥*] शास्त्रार्थभाजा चलतोनुशास्य वर्ग्णान्प्रतिष्ठापय-
- 9 ता खधम्में[|*] श्रीधर्मपालेन स्तेन सीभूत्खर्गस्थितानामन्रणः पितृणाम् ॥[५॥*] श्रवले-रिव जद्गमैर्यदीयैविंचलद्विदिरदैः कदर्थमाना ।
- 10 निरुपञ्चनसम्ब(म्ब)रं प्रपेटे शरणं रेखनिमेन भूतधात्रो ॥[६॥*] नेदारे विधिनोपशुक्तपयसां गंगाससेते म्बु(म्बु)धी । गोकण्णीदिषु चाप्यनुष्ठि-
- 11 तवतान्तीर्थेषु धर्म्याः क्रियाः [।*] भृत्यानां सुखमेव यस्य सक्तलानुहृत्य दुष्टानिमान्लोकान्साधयती[ऽ*]नुषङ्गजनिता सिद्धः परत्रा-
- 12 प्यभूत् ॥[७॥*]
  ⁵तैस्तैर्दिग्वजयावसानसमय संप्रेषितानां परै: सत्तारैरपनीय खेदमखिलं खां
  स्वां गतानां सुवम् [1*] क्रत्यं भावयतां
- 13 यदीयसुचितं प्रीत्या सृपाणासभूत् सोक्तगढं द्वरय दिवरयुतवतां जातिसाराणामिव ॥[८॥*] श्रीपरव(ब)सस्य दुहितुः चितिपतिना रा-
- 14 प्रमूट⁰तिसमस्य।
  रण्णादेव्याः पाणिर्जग्रहे ग्रहमेधिना तेन ॥[८॥*] धततत्रियं समीः
  साचाित्चितिनुँ शरीिरणी । किमविनपतेः कीर्त्तिम्-

¹ Two strokes in place of one.

² bymbol for H at the end of a pada is peculiar.

B Kielhorn has समेता".

⁴ This danda could be left out.

[ै] Kielhorn has तेर् तेर् which cannot be correct,

The way of writing the letter z is peculiar.

This dayda could be left out.

15	त्तीयवा ग्रहरवता[i*]
	दित विद्धती गुच्याचा[रा*] वितर्जवती: प्रजा: प्रकृतिगुरुभिर्या शुद्धान्त
	हुणैरकरीदमः ॥[१०॥ [*] ] साध्या प्र(प)तिवृतासी सु-
16	न्नारतं ससुद्रगुन्निरिव ।
	श्रीदेवपालदेवम्प्रमन्नवर्क्षं स्तमस्त ॥[११॥`] निर्माली मनिम वाचि
	संग्रत: ।¹ कायकर्मानि(णि)च य: स्थित: ग्रुची[।*]
17	राज्यमाप निरुपञ्जवस्मितुर्वी(वी) धिसत्व इव सीगतं पदम् ॥ [१२॥*]
	भ्याम्यद्भिविं जयक्रमेण । ² करिभिस्तामेव विनध्याटवीमुहास्मवमानवा(वा)प्पपयः
18	$[ \hat{\mathbf{H}} ]$ ਵੲਾ: पुन $\hat{\mathbf{a}} (\hat{\mathbf{a}})^2$ ਜ਼ਬਰ: $[ \mathbf{I}^* ]$
	कम्वो(स्वो)नेषु च यस्य वानियु[व*]भिर्धस्तान्यरानीनसी हेपामित्रतहारि-
	इषितरवा: कान्ताखरप्रीणिता:⁴ ॥[१३॥*] य: पूर्व व(व)सि-
19	ना क्षत: क्षतयुगि चेनागमद्वागैव-
	स्त्रेतायां प्रहतः प्रियप्रणयिना कर्णान यो द्वापरे । विच्छितः कलिना
20	धकदिपि गते कालेन लोकान्त-
20	रम्
	येन त्यागपयसा एव हि पुनिर्देखष्टमुन्मीसितः ॥[१४॥*] त्रा गङ्गागम-
21	महितालपत्र गून्यामासेत्(तोः) प्रियतदशास्यकेत् कीर्त्ते [।*] उर्व्वीमा वक्ण-
	निकेतनाच सिन्धो- रा लच्छीकुलभवनाच यो वु(वु)भोज ॥[१५॥*]
	स खलु भागीरयोपयप्रवर्तमाननानाविधनीवाटकसंपादितसेतुव(व)त्धनिहित[श्र]-
22	लिशिखरत्रेणिविश्वमात् निर्तिशयघनघनाघनघद्या(टा)श्वामायमानवासरलक्की-
	स्मारव्य(व्य)संतत्जलदसमयसन्देहात्' उदीचीनानेक-
23	नरएतिमाथकीकवामर्वेगवामा
24	खरखुरोत्खातधूलीधूसरितदिगन्तरालात् परमेश्वरसेवासमायाताशेषजंवू(वू)दी-
<b>4</b> 31	marries.
	पादातभरनमद्वनैः श्रीमुहगिरिसमावासिश्रीमञ्जयस्कन्धावारात् परमसीगत- परमेश्वरपरमभटा(ष्टा)रकम-

¹ This danda could well be omitted.

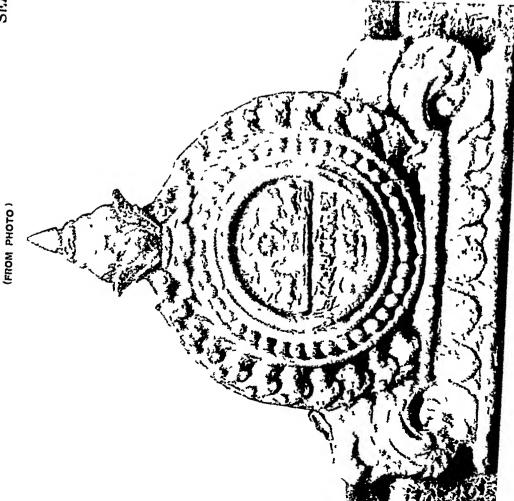
² This danda is unnecessary.

Kielhorn gave बान्यवा:

⁴ Kielhorn has चिर वीचिता:

s Kielhorn read होती; and remarked that the lithograph he used gave setu (or bhetu) Thin inscription sensores the possibility of bhetu. The readin must be होती:

Read द्वाद्दीको.



25	ष्टाराजाधिराजश्रोधर्मेपालदेवपादानुध्यात:
	परमसीगतः परमेश्वरः परमभटा(हा)रको मचाराजाधिराजः श्रोमान्देवपा
26	लंदेव:
	क्ष्माली । त्र्योनगरभुक्ती राजग्रह्मविषयान्तःपाति श्रजपुरनयप्रतिव(व) ह
	स्त्रसम्व(स्व)द्वाविच्छित्रतलोपित । नन्दिवनाक । मणि -
27	वाटक । पिलिपिग्जानयप्रतिव(व) नटिका । श्र-
	चलानयप्रतिव(ब) स्व हि [स्ति]ग्राम । गयाविषयान्तःपातिक्रसुदस् वनीयी-
00	प्रतिव(व) च पालाम-
28	कग्रामेषु । ससुपगताम्(न्) सर्वानेव राज-
	राणक । राजपुत्र । राजामात्य । सञ्चाकात्तीक्षतिक । सञ्चादण्डनायक ।
29	महाप्रतीहार । महा- सामन्त ।
	महादी:साधसाधनिक । सहाकुमारा[मा*]त्य [।*] प्रमातः । श्ररभङ्ग[।*]
	राजस्थानी । योपरिक² । विषयपति [।*] दाशापराधिक । चौरोहर
30	ियक । दापिड-
	क [।*] दागडपाधिक [।*] भी क्लिक [।*] [गी] किमक । चेत्रपाल [।*] कीटपाल
	खग्डरच [।*] तदायुक्तक । विनियुक्तक । <b>इस्त्यश्वीष्ट्रनीव(ब)लव्या</b> प्ट-
31	तक[।*]
	नियोरवडवागोमिडिप्यधिकत । दूतप्रै[प्र]णिक । गमागमिक । प्रभित्व-
32	रमाणक । तरिक । तरपतिक । स्रोद्र(ड्र)-मालव-खग्र-कुलिक। कर्णा- ट [इ]ण ।
	चाटभ[ट*]सिवकादीनन्धायाकीर्त्तितान् खपादपद्मोपजीविनः प्रतिवासि-
	नश्च त्रान्ह(ब्राह्म)णोत्तरान् सहत्तमकुटुम्बि(स्बि)पुरोगमेदान्ध्-
33	का चर्छाल-
	पर्यन्तान् समान्नापयति विदितमस्तु भवताम् यथोपरिलिखितस्वसम्ब(म्ब)-
0.4	द्वाविच्छित्रतलोपेत नन्दिवनाकग्राम । मणिवाट-
34	् कग्राम् ।
	नटिकाग्राम । इस्तिग्राम । पालामकग्रामाः स्वसीमात्रणयूतिगोचरपर्यन्ताः सतलाः सोद्देशाः साममधूकाः सजलस्य-
35	वा:
	सोपरिकराः सद्यापराधाः सचीरोद्धरणाः परिहृतसर्व्व(पीटाः) प्रचाटभटप्रवेगा
	ग्रक्तिंचित्प्रग्रा[म्न]राजकुलीय-

¹ The symbol which has been read as \$\pi\$ may bo \$\figstar{\epsilon}\$

[?] The danda between of and an was meant to be put after a to separate the word from the following uparik.

36	समस्तप्रत्यायममेता भृमिच्छि-
	द्रन्यायेनाचन्द्रावित्तिसमकात्तम् पूर्व्वदत्तभुत्तभुज्यसानदेववृ (व्र) ह्यारेयविताः
	सया
37	मातापित्रोरात्मन[च] पुख्यशोभिट्टये ॥
	सुव[र्ण्ण]द्दोषाधिपम[द्वा]राजत्र्योवा(वा)लपुत्रदेवेन टूतकसुखेन वयस्विज्ञा-
	पिताः यथा मया
38	चीनातन्दायाम्बिहार: कारितम्ज्व
	भगवतो वु(वु) त्रभद्वारकस्य प्रज्ञापारिमतादिमकन्तर्धमीने वीस्थानस्यायार्थे तां नू(चि)-
89	कवो(वो धिसलगणस्याष्टमनापुरूपपुननस्य
	चातुर्दिंशार्थभिचुसद्वस्य व(व)लिचरुसवचोवरिपण्डपातशयनासनग्लानप्रत्ययभे-
40	पन्यादार्थे धर्मे-
	रत्नस्य चिखनाद्यर्थ विद्वारस्य च खण्डस्फुटितसमाधानार्थे शासनीक्तत्य
	प्रतिपादित[1*]: यतो भवद्भि: सर्विरेव
41	भूमेर्द्दानपाल[न*]गौरवादपहरणे
	च सहानरकपातादिभयाद्दानिसद्मभ्यनुमीय पालनीयं प्रतिवासिभिरप्याज्ञाय-
42	वग्विधेयै-
	भूला यथाकालं समुचितभागभोगकरिहरखादिप्रत्यायोपनयः कार्य इति ॥
	सम्बत् ६८ वा(का) तिक दिने २१
	Reverse.
43	तथाच धर्मानुष्य त्यनस्रोकाः
	व(ब) हिमिवसुधा दत्ता राजिभ:
44	सगरादिभि [।*]
	यस्य यस्य यदा भूभिस्तस्य तस्य तदा फलम् ॥[१६॥]
45	
	खदत्ताम्परदत्ताम्वा [यो] ह[रे]त वसुन्धरा । स विष्टायां कमिभेत्वा पितृभिः
46	् सह पचते ।[१७*॥।
	षष्टिम्बर्षसङ्[सा]िष खर्गे मोदित भूमिदः । आविष्ठा चानुमन्ता च
	तान्ये <del>व</del>
47	नरके वसेत् ॥[१८*॥]
	यन्यदत्तां दिनातिभ्यो यत्नाद्रच युधिष्ठिर । सहीं सहीस्रतां श्रेष्ठ दा-

¹ Kielborn gave भर तिशासनाबात suggested चर्मातुशासिन Perhaps शसिन, is the reading intended,

48	नाच्छेयो नु पालनम् ॥[१८*।
	श्रमानुनक्रमसुदारसुदा[ह]रिद्धरन्यैष दानमिद्मभ्यनुमीदनीयं । नम्स्रास्त
	<b>डित्सिलिल</b> बुदु(बुद्दु)द[चं]-
49	चलाय
	दानं फलं परयशःपरिपालनं च ॥[२०*॥] इति कमलदलाम्वु(म्बु)वि(बि)
	न्दुचीचां ऋयमनुचिन्त्य मनुष्यजीवितं च [।*] सक्तविम-
50	दसुदाहृतं च वु(बु)[ध्वा]
	न हि पुरुषै: परकीर्त्तयो विलोप्याः ॥[२१*॥] दिचणभुज इव राम्नः
	परव(ब) सद्दलने सद्दायनिरपेच: ।[।*]
51	दूत्यं स्त्रीव(व)जनर्मा विद्धे धर्माधिकारे¹ऽस्मिन् ॥[२२*॥]
	श्रिकान् धर्मारम्भे दूलं श्रीदेवपालदेवस्य । विदधे श्रीव(ब)लवर्मा
	व्यान्नतंटीसग्डलाधिपतिः ॥[२२*॥]
52	ूश्रामीदश्रेषनरपालविजीलमीलि-
	मालामणिद्युतिविवो(वो)धितपादपद्मः । ग्रैलेन्द्रवग्रतिलको यवभूमिपालः
~0	न्योवीरवैरिसधना- 
53	नुगताभिधान: ॥[२४*॥] इम्बेखलेषु कुसुदेषु स्टणालिनीषु प्रह्वेन्दुकुन्दतुन्दिनेषु पदन्दधाना । निःश्रेष-
	दिझुखनिरन्तरत्रथ(स्र)गीतिः
54	मूर्त्तेव यस्य भुवनानि जगाम कीर्त्तिः ॥[२५*]
<b>0</b> -	सूभक्षे भवति नृपा'स्य यस्य कोपानि[भि]नाः सच
	त्रियोपि । वकाणामि-
55	ष्ट चि परीपघातदचा
	जायन्ते जगति ऋष³द्गतिप्रकारा: ॥[२६*॥] तस्याभवन्नयपराक्रमशीलशाली
	राजेन्द्रमीलिश्रतदुर्षेकिताद्भि-
56	युग्सः ।
	स्तुर्यु धिष्ठिरपराग्रसीमसेनकर्णार्ज्जुनार्ज्जितयगाः समराग्रवीरः । [।२७*॥]
	उहूतम⁴म्ब(ख)रतलाघ(खु)धि सञ्चरन्त्या यत्तेनयावनिरजःप-
<b>57</b>	टल पदौर्यम् । कर्ण्णीनिलेन करिणां प्रनकक्वितीर्ण्णगण्डस्थलीमदनलैः प्रमयाम्व(म्ब)-
	भूष ।[[२८*॥] श्रक्षण्यचमेवेदमभूद्भवनमण्डलं ।
	AND ILIZOULI ACIMAMIDALIANIMI I

¹ The use of avagraha may be marked.

² This denda is unnecessary

⁸ Read Mar Symbol for sh is used for that of i,

or office.

s It is better to read साहत्"

	36
58	कुलन्दैत्याधिपस्येव यद्यशोभिरनारतम् ॥[२८*]
•	पौलोसोव सुराधिपस्य विदिता सङ्क्लयोनिरिव [प्रीति:] श्रीलस्तिव सन्मयरि-
59	dim series
อฮ	राज्ञः सीमकुलान्वयस्य महतः श्रीधर्मसेतोः सुता तस्याभूदवनौभुजोऽ ग्रमहिषी
	नाराजार ॥वि०*॥ो साधा-
60	यामिव कामदेवविजया भुद्रादगस्यानगः
00	स्कन्दो नन्दितदेवद्वन्दच्चदयः ग्रमोत्तमाथामिव । तस्यान्तस्य नरेन्द्रद्वन्दवि-
	नमत्पादारवि•
61	न्दासनः
-	सर्वीर्व्वोपतिगर्व्वग्वर्वण्चणः स्रोवा(वा)लपुत्रोऽभवत्' ॥[३१*॥] नालन्दागुण-
	वन्दलम्ध(व्य)सनसा भन्नया च शीहोदनेर्वु(वु)ध्वा शैलसरित्तरंगतरला
62	नसीमिमां चीभनाम् ।
02	यस्तेनोत्रतसीधधामधवतः सङ्घार्थमित्रत्रिया नानासहुणभित्तुसङ्घवसतिस्तस्या-
	स्विहार: कृत: ॥[२२ [*] ॥] भक्त्या
63	तत्र समस्त्रमतुवनितावैधव्यदीचागुर्र
	क्तत्वा शासनमाहितादरतया यम्प्रार्थं दूतेरसी। ग्रामान् पञ्च विपञ्चितोपरि-
	यघोद्देया-
64	निमानासनः
	पित्री[क्री]कद्दितीदयाय च ददी श्रीदेवपालं न्टपं ॥[३३*॥] याविसन्धीः
	प्रव(व)न्व: पृयुत्तचरजटाचीभिताङ्ग च गङ्ग गुर्वी
65	धत्ते फणीन्द्रः प्रतिदिनमचली हेलया यावदुर्वीं ।
	यावकास्तोदयाद्री रवितुरगखुरीबृष्टचूडामणी स्तस्तावत्तक्तोत्तिरेषा प्रभव-
66	तु जगताम्सित्तया रोपयंती ॥[३४*॥]

## TRANSLATION

Lines 1-25 are translated in the Mungir grant edited by Kielhorn in Indian Antiquary, Vol. XXI, pp 257-258

Il 26-33 In the Śrinagara-bhukti, at the villages falling within the district (vishaya) of Rijagnha, namely, Nandivanāka and Manivātaka, which come within the territorial subdivision (naya) of Ajapura, together with the undivided lands connected therewith, Naţikā which comes within the subdivision (naya) of Pilipiņkā and Hastigrāma which comes within the

¹ Brith thos. letters are doubtful Sankaipayom, s.e. Kamadora has four wives, as stated in the Vishnudharmm3'tariya, III, 73, 21, namely, Rati, Priti, Sakt and Madasakti Either of the two names Priti and Sakts will fit 1., but the former seems preferable

³ May be read as बर्मेसेती also

³ The use of the aragraha may be marked.

subdivision (naya) of Achalā and the village of Pālāmaka which comes under the subdivision (vīthī) of Kumudasūtra (or Kumudasūnu), that falls within the limits of the district (vishaya) of Garā—Dēvapāladēva, being in good health, issues commands to all the persons who have assembled here,—the Rājarānaka¹, the Rājaputraka, the Rājāmātya, the Mahākārttākritika, the Mahādandanāyaka, the Mahāpratīhāra, the Mahāsāmanta, the Mahādauhsādhasādhanika, the Mahākumārāmātya, the Pramāty, the Sarabhanga, the Rājasthānīya, the Uparika, the Vishayapati, the Dāsāparādhika, the Ohaurāddharanika, the Dāndika, the Dāndapāšika, the Saulkika, the Gaulmika, the Kshētrapāla, the Kōṭapāla, the Khandaraksha, the Tadāyuktaka the Viniyuktaha, the Hastyasīāshtranaubalavyāpyitaha, the Kisāra-vaḍavā-gō-mahishydhikyita, the Dūtapraishanika, the Gamāgamika, the Abhitvaramānaka, the Tarika, the Tarapatika, the Oḍras (men fiom Orissa), the Mālavas, the Khasas, the Kulikas, the Karnnātas, the Hūṇas, the Ohāţas (or village officers), the Bhaṭas, the servants and others, dependent on his lotusfeet, who are not named here, and the residents, the Brahmanōttaras, the village-elders, householders, the purōgas, the Mēdas, the Andhrakas down to the Ohānḍālas—

Li 33-87 Be it known to you that the above-mentioned villages, namely, the village of Nandivanāka, the village of Manivātaka, the village of Natikā, the village of Hasti, (or Hastigrāma) and the village of Pālāmaka, together with the undivided lands attached to them, unbroken up to their boundaries, grass and pasture-lands, with their grounds, places, mango and madhūka (Bassia Latifolia) trees, with their water and dry lands, uparikaras, dašāparādhas, chaurāddharanas, free from all troubles, exempt from the entry of the chāṭas (village officers), and bhaṭas, with all taxes due to the king's family or court, with nothing of these to be recovered, according to the maxim of bhūmichchhidra, to last as long as the moon and the sun and the earth shall endure, excluding the gifts to gods, and the Brahmans, which were granted before and were enjoyed or are being enjoyed—

LI 37-42 are granted by us for the increase of the spritual ment and glory of my parents and of myself.—We being requested by the illustrious Mahārāja Bālaputradēva, the King of Suvarṇadvipa through a messenger "I have caused to be built a monastery at Nālandā" granted by this edict toward the income for the blessed Lord Buddha, the ahode of all the leading virtues like the pra jāāpāramitā, for the offerings, oblations, shelter, garments, alms beds, the requisites of the sick like medicines, etc., of the assembly of the venerable bhikshus of the four quarters (comprising) the Bodhisattvas well versed in the tantras, and the eight great hely personages (i e the ariya-puggatas), for writing the dharma-ratinas or Buddhist texts and for the upkeep and repair of the monastery (when) damaged; therefore, this grant should be approved and preserved by all of you out of regard for the ment of protecting gifts of land and because in the confiscation of the same there is a fear of falling into the great hell and the like. The residents also should be obedient to the order on hearing it and

¹ Many of these designations hardly admit of translation They all occur in several grants and have already been noticed by scholars So they are left untranslated here.

² सज्युतिनीचर 18 usually so translated and यूति 18 practically left untranslated.

Dr. Thomas is of opinion that the term Bödhisattva is used here to indicate the monks and would read tatraka in place of tantraka. He further thinks that Buddhabhaffarakasya depends on sthanasya. The term dharmanētrā cecurs in the Saddharmanundarīka, I, 10, 79; II, 102, XI, 5, 7 Burnouf translates it "la regle de la loi," to the rule of the Law" For ashia pudgalasya see Childers, Pāli Dictionary under ariyapuggalo and puggalo,

⁴ Dr. Kröm of Leiden also thinks that the message sent by Balaputra to Dēvapāla is only contained in the words "Śrī-Nālandāyām vihārah Kāritah"; for, if we assume that the message includes the whole passage as far as it (1 42) it is not clear who are meant by the words bharadbith sarvairēva (1 40). These words cannot be applied to King Dēvapāls. Evidently they refer to that king's officials mentioned previously. There remarks appear to be justified but then we would require its after kāritas.

should bring to the donees at the proper time the due revenues such as bhāgabhōgakara, gold, etc." Samvat (year) 39, Kārttika, day 21.

Li 43-50. In pursuance thereof are the (following) verses (nos 16-21) announcing

duties (regarding grants)1.

- V. 22 The illustrious Balavarmman who was the right hand of the king, as it were, and who never depended on (others') help for crushing hostile forces, acted as messenger in this religious function
- V 23 In this religious undertaking Balavarmman, the illustrious ruler of the Vyäghratatī-mandala, acted as a messenger of the illustrious (Emperor) Dčvapšladěva
- V 24 There was a King of Yavabhūmi (or Java), who was the ornament of the Sailēndra dynasty, whose lotus-feet bloomed by the lustre of the jewels in the row of trembling diadems on the heads of all the princes, and whose name was conformable to the illustrions tormentor of brave foes (vīra-vairi-mathana)
- V 25 His fame, incarnate, as it were, by setting its foot on the regions of (white) palaces, in white water-lilies, in lotus plants, conches, moon, jasmine and snow and, being incessantly sing in all the quarters, pervaded the whole universe
- V 26 At the time when that king frowned in anger, the fortunes of the enemies also broke down simultaneously with their hearts. Indeed the crooked ones in the world have got ways of moving which are very ingenious in striking others?
- V 27 He had a son, who possessed prudence, prowess, and good conduct, whose two feet fondled too much with hundreds of diadems of mighty kings (bowing down). He was the foremost warrior in battle-fields and his fame was equal to that earned by Yudhisthira, Parasara, Bhīmasēna, Karnņa and Arjuna
- V 28. The multitude of the dust of the earth, raised by the feet of his army, moving in the field of battle, was first blown up to the sky by the wind, produced by the (moving) ears of the elephants, and, then slowly settled down on the earth (again) by the ichor, poured forth from the cheeks of the elephants
- V 29. By the continuous existence of whose fame the world was altogether without the dark fortught, just like the family of the lord of the daity as (demons) was without the partisanship of Krishna 3.
- V. 30 As Paulömī was known to be (the wife of) the lord of the Suras, (i.e. Indra) Ratif the wife of the mind-born (Cupid), the daughter of the mountain (Pārvatī), of the enemy of Cupid (i.e. Šīva) and Lakshmī of the enemy of Mura (i.e. Vishnu) so Tārā was the queen consort of that king, and was the daughter of the great ruler Dharmasētu 5 of the lunar race and resembled Tārā (the Buddhist goddess of this name) herself
- V 31 As the son of Śuddhōdana, (i e the Buddha) the conqueror of Kāmadēva, was born of Māyā and Skanda, who delighted the heart of the host of gods, was born of Umā by Śiva, so was born of her by that king, the illustrious Bālaputra, who was expert in crushing the pride

² Here come six imprecatory and benedictory stanzas, too well-known to be translated. The stanza स्विनितान् सावित. पारिविन्दान् which is given in the Mungar grant is here left out

The eyebrows become crooked in frowning and the poet by way of arthanturu-nyasa draws a general inference from it

Fun on the words Krishna and paksha. Fame is white or bright of माजिन ब्योक्ति पापे यश्री घवसता वर्यते हासकार्यो हिंदी हैं होतंत्रविकाल, VII-23.

The exact word which certainly has only two letters is not distinct. It may be either Priti or Sakti as noted above, f n., p. 324. That Rati is meant is absolutely clear from the context.

This name can be read as Varmasetu also,

of all the rulers of the world, and before whose foot-stool (the seat where his lotus-feet rested) the groups of princes bowed

- V 32. With the mind attracted by the manifold excellences of Nālandā and through devotion to the son of Suddhödana (the Buddha) and having realised that riches was fickle like the waves of a mountain stream, he whose fame was like that of Sanghārthamitra¹, built there (at Nālandā) a monastery which was the abode of the assembly of monks of various good qualities and was white with the series of stuccoed and lofty dwellings.
- V 33 Having requested, King Dēvapāladēva, who was the preceptor for initiating into widowhood the wives of all the enemies, through envoys, very respectfully and out of devotion and issuing a charter, (he) granted these five villages, whose purpose has been noticed above for the welfare of himself, his parents and the world
- V. 34. As long as there is the continuance of the ocean, or the Ganges has her limbs (the currents of water) agitated by the extensive plaited hair of Hara (Siva), as long as the immovable king of snakes (Sēsha) lightly bears the heavy and extensive earth every day and as long as the (Udaya) Eastern and (Asta) Western mountains have their crest jewels scratched by the hoofs of the horses of the Sun so long may this meritorious act, setting up virtues over the world, endure

## No 18-MATTEPAD PLATES OF DAMODARAVARMAN.

By Professor E Hultzson, Ph.D., Halle (SAALE)

This inscription is engraved on five very thin copper-plates, which were found in the village of Mattepād in the Ongole Tāluk of the Gunţūr District and forwarded to Rao Bahadur H Krishna Sastri by the Tahsildar of Nellore—The plates measure 6½ inches in breadth and 1½ inches in height—There are eight inscribed faces, the outer faces of the first and last plates having been left blank. Each inscribed face bears only two lines of writing—The margins of the plates are not raised into rims, but the writing is in fair preservation—The five copper-plates are strung on a ring of the same metal, passing through a hole of about ½ in diameter on the left side of the writing—The two ends of the ring, which is about 2½ in diameter, are fixed in the base of an oval seal, which is much worn; it seems to bear, in relief, the figure of a seated bull, facing the proper right. The weight of the plates, with ring and seal, is 30½ tolas

The alphabet is of an early Southern type. The Jihvāmūliya occurs in line 7, and the Upadhmāniya in line 16, final forms of t and m in lines 1, 7, and 15, 16 (twice), respectively. As in the case of the plates of Ghārudēvi (above, Vol VIII, No. 12) and of Vijaya-Dēvavarman (Vol IX, No 7), the eight inscribed faces are numbered consecutively, like the pages of a modern book, with the numerical symbols 2, [3], 4, 5, 6, 7, 8 on the left margin; the first plate seems to bear, just as that of Dēvavarman, 2 the sacred syllable  $\bar{o}m$  in the place of the figure 1. The symbol 2 occurs also in the date (1.14), and the symbol 1 repeatedly in lines 8-13

The language of the plates is Sanskrit mixed with Prakrit. Lines 1-14 are in prose, and the two last lines in verse. In the Sanskrit portion consonants following r are doubled, with the exception of t in kartum= and of h in arhanti (1 6). The Sandhi is neglected after purat (1 1), tasya and sagotrasya (1. 2), grāmāyakāh (1 4), grāmah (1 5), and bhāmīh (1 15)

¹ This might possibly mean that his wealth befriended the cause of the Saigha,

[?] Sea shave, Vol IX, p. 57.

In lines 8-13 the proper names of the donces and most of the names of their gātras are given in Prākrit, and in line 14 the Prākrit form -samiarhehharam occurs. The only other declensional forms are the nominative singular amso (for which we would have expected amso) and the genitive singular -ajjossa (= -āryasya in Sanskrit) in lines 8-13. The vowel au has become o in Kondinna (= Kaundinya, 11 8-11). Sinskrit p and b have been changed to v in Kassava (= Kāsvapa, 1 11 f) and Saiarajja (= Sabarārya, 1 10). Consonant groups are assimilated, but srī is represented by siri in Sirija (1 2). This name, as well as Nandijja' (= Nandyārya, 11 8, 13), Aggijja (= Agnyārya, 11 9, 11), Agasti (= Agastya, 1 13), and Venujja (for which we would have expected Venhujja' = Viehniārya, 1 12), are instances of Samprasārana (i = ya, and u = va).

The inscription records that, in the 2nd year of his reign (1 14), the Mahārāja Dāmodaravarman (1 3) granted the village of Kangura to a number of Brahmanas He was a worshipper of 'the truly and perfectly Enlightened one' (Samyal-sambuddha, 1 1), ie of the At the same time he boasts of having performed certain Brahmanical rites, viz. Gösahasra and Hiranyagarbha (1 2 f) These are the names of the second and fifth of the sixteen so-called 'great gifts' (mahādāna) of the Puranas A similar feat is ascribed to king Attivarman in another copper-plate grant from the Guntur District, where I translate the epithet apramēya-Hiranyagarbha-prasaiēnas by 'who is a producer of (i.e who has performed) innumerable Hiranyagarbhas' That this Attivarman (whose name seems to be a Prakritic or Dravidian form of Hashvarman) belonged to the same dynasty as Damodaravarman, is evident from the fact that his family is stated to be 'descended from the lineage of the great sage Ananda' (ibid., text 1 1) while Damodaravarman claims to have belonged to the gotra of Ananda (below, text 1 2) Moreover, Dāmodaravarman resided at a city called Kandarapura (below, text 1, 1), which must have received its name from that prince Kandara who is mentioned as an ancestor of Attivarman. The characters of the copper-plate grant of this king are decidedly more developed than those of the subjoined grant, which, besides, is partially in Prakrit, while the former is all in Sanskrit. Consequently, Damodaravarman must have been one gf the predecessors of Attivarman

When editing the Görantla plates of Attivarman, my late lamented friend Fleet believed this king to have been a Pallava,7—chiefly because he interpreted the epithet apramēya-Hiranyagarbha-prasavēna by 'who is of the posterity of the inscrutable (god) Hiranyagarbha. As I have shown above, this rendering is inadmissible in the light of the corresponding epithet used in the fresh plates, and Fleet himself had since withdrawn his original opinion in his Dynasties of the Kanarese Districts, second edition, p. 334 Henceforth Kandara, Dāmödaravarman, and Attivarman (Hashvarman) may be designated as 'kings of the family of Ānanda.'

The two localities mentioned in the subjoined inscription—Kandarapura (1 1) and Kangūra (1 4 f)—I am unable to identify But the first of the two villages referred to in the grant of Attivarman—Tānrikonra⁸—is probably identical with Tādikonds, 10 miles north of Guntūr 2 and south of the Krishnā river, and the second village—Āntukkūra¹⁰—with Gani-Ātukūru, west

¹ In line 13 the names of the gotras are in Sanskrit

² Cf Nandin and Gonardina, above, Vol. I, p 6, text 1.21, and Vol. VI, p 87, text 1.9

Cf Rudarenshuja, above, Vol. VI, p. 317, text 1. 16

[,] See Hēmādn's Dānakhanda, chapter 5, and cf also Ep Ind, Vol. I, p 868, verse 18 and note 58 Ind. Ant., Vol IX, p 102, text 1.8

Loc. cit., text 1. 2. These coincidences were first pointed out in the Madras Epigraphical Report for 1920,

^{*} See Ind. As., Vol IX, p 102.

* See Mr B. Sewell's Laste, Vol. I. p 76.

¹⁰ Ind. Ant, Vol IX, p 103, text 1.8.



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iv b



तररेगारोश कार्य राजारिक प्रथम सम्बद्ध कार्य स्थाप कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार

of Bezvāda 1 Görantla, where the plates of Attivarman were obtained,2 is 4 miles north of Gunţūr 3 Finally. Venkayya's Report for 1900, pp 5, 35, notes a much defaced Sanskrit inscription mentioning the daughter of king Kandara of the Ānanda gōtra, at Chēzarla, west of Gunţūr.

#### TEXT 4

## First Plate: Second Side

- 1 विजयकम्टरपुरस्त् [स]गवतः सन्यक्संबुदस्य पादानुष्या-
- 2 तस्य षा[न]न्दसगीनस्य प्य[वन्ध्य]गोसह[सान]कहिरख-

# Second Plate, First Side

- 3 गर्भोद्भवोद्भवस्य सहाराजश्रीदामोद्ग्वर्भाणो वचनेन
- 4 कंगूरग्रामियका(:) वक्तव्या: [1*] एभ्धी ब्राह्मणे[भ्यो] नानागीचचरण-

# Second Plate, Second Side

- 5 तपस्लाध्यायनिरतेभ्योस्मदासप्तसस्तुलनिन्द्वारण[1⁴]त्र्थे नंगृरयामः
- 6 प्रसाभिस्रर्वेपरिहारेहित: [1] तंव्विचाय में प्रेषि]णं कर्तुमर्छन्ति [1]

# Third Plate, First Side.

- 7 एवां ब्राह्मणानां गोचनासविभागादंश्यविभागिक्कृयते [1*] पूर्वेन्तावत्
- 8 को एडन एड जस्म शंभी १ को एडम निस्कास शंभी १ को एडम खन्द जस

# Third Plate ; Second Side.

- 9 की खिद्रसम्बद्धा अंशी १ की खिद्रसम्बिणकास्य अंशी १ की खिद्रसिरि-कास्य पंशी
- 10 पुन: कोव्डियभवकास संघो १ कोव्डियसक्तस संघो १ कोव्डिय-स्वरक्तस मंहि

#### Fourth Plate ; First Side.

- 11 कोषिङ्क्षमिकास्य षंशी १ कीरिङ्क्षवीरकास षंशी १ कसावदामकास्य [षंशी]
- 12 कसावज्ञमारकाया श्रंथो १ कसावविशुष्णसा श्रंथो १ कसा[बदे]वज्जसा श्रेथो

f See above, Vol. VIII, p 10.

² Ind Ant, Vol IX, p 102.

Mr Sewell's Lists, Vol. I, p. 74.

From ink-impressions supplied by Rao Bahadur H. Krishna Sastri.

Boad तकिशाय.

# Fourth Plate, Second Side

- काश्यपनिदः अयो १ वलदोण्यसः अयो आगस्तिभद्दासः 13
- वार्त्तिकश्रुलपचस्य घयोदय्यां पहिका दत्ता विजयसवच्छर २ 14 Fifth Plate, First Side
- बहुभिचानुपानिता [1*] यस्य यस्य यदा भूमि:² दत्ता फलम्॥
- वा यो इरेत् वसुन्धराम् [1] गवां गतसप्रसस्य परदत्तां 16 इन्तु ४ पिवति दुष्कृतम् ॥

### TRANSLATION

(Line 1) From Kandsrapura, (the city) of victory, the villagers of Kangura have to be addressed (as follows) by the word of the glorious Mahārāja Dāmōdaravarman, who meditates on the feet of the blessed Samyak-sambuddha; who belongs to the gotra of Ananda; (and) who is the origin of the production (i.e. who has caused the performance) of many Hiranyagarbhas4 and of (gifts of) thousands of pregnant cows

(L 4.) 'For the sake of Our salvation as far as the seventh generation, the village of Kengura has been given by Us, with all exemptions, to the following Brahmanas of various gotras and charanas, and practising austerities and recital of their sacred texts Knowing this

(the villagers) should render service (to them).

(L 7) The allotment of shares is (now) made to these Brahmanas, with specification of (their) gotras and names First then, to the Kondinna Ruddajja (Rudrārya) 1 share; to the Kondinus Nandijja (Nandyärya) 1 share, to the Kondinua Khandajja (Skandarya) (1) share; to the Kondinna Bhavajja (Bhavarya) 1 share, to the Kondinna Aggijja (Agnyarya) 1 share; to the Kondinna Sirija (Šryārya) (1) share, again to the Kondinna Bhavajja 1 share, to the Kondinna Khandajja 1 share, to the Kondinna Savarajja (Šabarārya) (1) share; to the Kondinna Aggija 1 share, to the Kondinna Virajja (Virarya) 1 share, to the Kassava Damajja (Dāmārya) (1) share, to the Kassava Kumārajja (Kumārārya) 1 share, to the Kassava Veņujis (Vishavārya) 1 share; to the Kassava Devalla (Dovārya) (1) share, to the Kāsyapa Nandija 1 share, to the Vatsa Donajja (Dronārya) 1 share, to the Agasti Bhaddajja (Bhadrārya) 1 share.

(L 14) (In) the year of victory 2, on the thirteenth (tithi) of the bright fortnight

of Karttika, (this) set of plates has been given (to the donees)

[Line 15 f contain two of the customary flokas]

# No 19-URLAM PLATES OF HASTIVARMAN, THE YEAR 80.

BY PROFESSOR E HULTZSCH, PH D , HALLE (SAALE)

This is a set of three copper-plates, measuring 71 inches in breadth and 21 inches in The outer face of the first plate has been left blank, while the second and third plates height

[ा] चंद्री र is entered below the line.

^{*} Read sugo

² Read भूमिसo.

⁴ See the introductory remarks.

^{*} paffikā is used in the same senge in other copper-plate grants See above, Vol. I, p. 7, text 1. 51; Vol. VI, p 14 text 1 18, p 88, text 1 28, p 818, text 1 40, Vol. VIII, p. 240, text 1 40.

tion of a Ganga grant in Vol XIII, p 216 As I have shown in Vol VII, p 107, note 4: akhaiah, the person to whom the engraving of copper-plate grants is entrusted, means 'a goldsmith," and must not be confounded with al shapatalika, 'a keeper of records '

Of the localities mentioned in this inscription, Kalinganagara (1 1) is the precent Mukhalingam,2 and Uramalla, where the donce resided (1 12), is Urlam* where the copperplates were obtained. In the absence of local maps, I am unable to identify the village granted, Hondevaka (1 8), and another village, Hattaravanna, which seems to be referred to in the description of the boundaries of the former (1 16) The district of Kroshtuka-vartani (1 8) occurs also in the Chicacole plates of Dövendravarman 4

# First Plate , Second Side

- श्रीं स्रस्ति [1⁴] सर्व्वर्त्तसुखरमणीयादिनयकतिद्वनगरायाकलभुवननिर्माणीक-
- च्चधारस सगवतो 'गोकणुंखासिनचरणकमलयुगलप्रणामादपगत-
- कलिकलही विनयनयसम्पदासाधारः खासिधारापरिखन्दाधिग-
- 4 तसकालकालिङ्गाधिराज्यसतक्दधितरङ्गमेखकावनितलप्रवि-
- 5 यनिवासमरसंघीभजनितज्ञवयव्दी गाङ्गा-ततासचयशा(:)
- मजञ्जू जपतिष्ठः प्रतापातिष्ययानामितसमस्तसामन्तचृडा-

# Second Plate . First Side

- सणिप्रभामखरीपुखरिखतचरणो सातापितृपादातुद्धातः परस-
- साइम्बर: त्रीसहारानी हस्तिवसी (1) क्रीष्टुकवर्त्तन्वां होग्छेवनयामे स-
- र्वं समवेतान्तुदुस्थिनस्यसातापयति [।*] विदितमस्त् वो ययान्तासि[:]*
- चिम्राग्यामेग्रहारिदासकायादकीत्वा हाईहलस्य भूरछेदीकत्याचन्द्रार्ध-10
- 11 प्रतिष्ठसयसारस्त्वा सर्व्यकरै: परिद्वत्य सातापित्रोराक्षनस पुष्पासिष्ठसये10
- 12 उरामहिनवासिने वक्ससगोचाय वालसनेयसग्रद्याचारिणे ल[य]-

# Second Plate; Second Side.

- 18 शर्मणे कार्तिकालणाष्ट्रम्यासुदकपूर्व संप्रता [।*] तिहिदिता स्वभूमिमनुपाल-
- 14 यतां न नीनचित्परिवाधा¹¹ दार्व्यति । सीमान्तिप्रानि चाच पूर्वेष वस्त्रीकस्ततः

¹ Cf. agasāli, agasālavādu or agasālevādu, a goldsmith, in Brown's Telugu-English Dictionary. 2 See above, Vol. IV, p 187 ff

This identification was suggested in the Madras Epigraphical Report for 1920, p 98.

⁴ Above, Vol. III, p 131

From ink-impressions supplied by Rao Bahedur H Krishna Spetra, s Expressed by a symbol,

र Bead सीक्षपर् Bead °संपीय°.

¹⁰ Bead ogga,

Pend यथासाभिरिह्म

¹¹ Read outel.

• स्वान्य ये स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य स्वान्य

त्रास्तिस्य श्वास्त्राम्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्यास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य स्थास्य

" व्याप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्य स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त स्वाप्त

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त्वा वर्षा तित्र व्या वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्ष वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर्षा वर

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- चेत्रपाली तती घोषणवाष्या[:"] पश्चिमपाली ततः पुनरिप चेत्र-15 पाली [1*]
- 16 दिचियेन इत्तरवस्रीयान्तिका पव¹ [1[#]] पश्चिमन चेचपाली तती वल्मीक:8
- ततः क्रत्मा पाषाणपिद्धः [।*] उत्तरेणापि चेचपासी प्रनर्वेत्सीकः²
- 18 तती पूर्ववल्यीवसनुप्राप्तित । भविष्यद्वानिभक्षायन्दानिधक्यीनुपालनीय: [1*]

# Third Plate . First Side.

- तथा च व्यासगीताः [1*] बहुभिर्व्वस्था दत्ता बहुभिस्वानुपालिता [1*] 19 यस्य यस्य
- यदा भूभिस्तस्य तस्य तदा फलं [॥ १६] खदत्ताम्परदत्तां वा युधिष्ठिर [।*] सर्ही⁵
- मिक्रिमतां श्रेष्ठ दानाच्छेयोनुपालनं [॥ २*] षष्टिं वर्षेसप्रसाणि सोदते दिवि
- भूमिद: [:*] जाचेमा चातुमन्ता च तान्धेव नरवे वसेदिति । [२*] प्रवर्हमानविजय-
- राज्यसंवत्सरा ष्रग्रीतिः ८० वार्त्तिकदिन ८ ॥ पूर्वं विनयचन्द्रेण भात-
- चन्द्रस्य स्तुना [।*] भासनं राजसिङ्गस्य सिखितं खसुखाञ्चया ॥ [४*] 24

Third Plate , Second Side.

- मण्डलायायनिष्येष्टनिष्यष्टारातिसङ्तेः [1*] 25
- न्त्रोमतोप्रतिघात्रस्य रणभीतस्य ग्रासनम् ॥ 26

#### TRANSLATION.

(Line 1.) Om. Hail! From Kalinganagara, (the city) of victory, which is pleasant (on account of the simultaneous presence) of the comforts of all seasons, the glorious Maharana Hastiyarman, a fervent worshipper of Mahesvara, who meditates on the feet of (his) mother and father. . . . . . . . . . . . . . . . . . 8 commands (as follows) the ryots, accompanied by all (others), at the village of Hondevaka in (the district of) Kröshtuka-vartani.

(L 9.) 'Be it known to you that We have purchased two and a half ploughs (hala) of land in this village from the Agrahankas, have constituted (this land a separate) section.

¹ Read सीमान्तिकव.

^{*} Read क्रिसा.

Bead मही

र Read ेसंस्ते:

² Read वधीकपतः • Bend कपाय..

Bead सिएस्य

The epithets omitted here will be found translated above, Yol III, p 120.

i.e. the residents of the agrahara.

have made (it) an agrahāra which is to last as long as the moon and the sun, have exempted (it) from all taxes, and that, for the sake of the increase of the religious merit of (Our) mother and father and of Ourself, on the eighth (tithi) of the dark (fortnight) of Kārttika, with libations of water, We have given it to Jayasarman, who resides at Urāmalle, belongs to the Vatsa gōtra, (and) studies the Vājasanēya (śākhā). Knowing this, nobody should cause obstruction to (the new owners) while they are preserving their own land."

- (L 14) And the marks of the boundaries of this (land are) In the east, an anthill; then the bank  $(p\bar{a}l\bar{i})$  of a field, then the western bank of the Ghōshana tank, and then again the bank of a field. In the south, only the boundary of Hattaravanna. In the west, the bank of a field, then an anthill; then an artificial row of stones. And in the north, the bank of a field, then an anthill; again an anthill; then (the boundary) reaches the anthill in the east.
- (L 18) And future kings should preserve this meritorious gift. There are also the following (verses) sung by Vyssa.

[Lines 19-22 contain three of the customary Slokas]

- (L 22) Eighty—(in figures) 80—years of the reign of increasing victory, the day 8 of Kärttika
- (Verse 4) At the command of his (the king's) own mouth, this edict of Rajasimha has been written by Vinayachandra, son of Bhanuchandra
- (V 5) (This is) an edict of the glorious Ranabhitz, whose orders are irresistable, (and) who has crushed the collection of (his) enemies by the strokes of the point of (his) scimitar.

# No 20-IPUR PLATES OF GOVINDAVARMAN'S SON MADHAVAVARMAN.

By Professor E Hultzson, Ph D, Halle (Sagle)

This is a set of three thin copper-plates in the possession of Brindavanam Gopalacharlu at the village of Ipür in the Tenāli Tāluk of the Gartūr District, which was brought to the notice of Rao Bahadur H Krishna Sastri by Mr A Rangasvami Sarasvati. The plates measure 6½ inches in breadth and 1½ inches in height. The outer faces of the first and last plates have been left blank, while the middle one bears writing on both sides. The margins of the plates are not raised into rims, but the writing is in good preservation. The plates are strong on a copper ring, which is 3° in diameter and is passed through a hole on the left side of the writing. The two ends of the ring are secured in the base of a circular seal, which measures 1¼ in diameter and is somewhat worn. It is divided by a cross-line into two sections. The lower section bears, in relief, the legend Angusta in two lines. Above the line seems to be a figure of Lakshai or a Svastika on a pedestal, flanked by two lamp-stands and surmounted by the sun (?) and the crescent of the moon. The weight of the plates, with ring and scal, 1- 30 tolas.

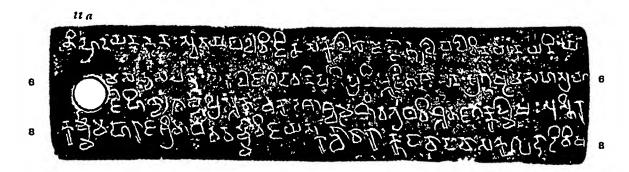
The alphabet is of an earlier southern type than that of the two other published grants of the Vabrukundin family. The secondary forms of and are not always clearly distin-

^{*}Cf it e corresponding port on of the Achyutapuram plates, above, Vol. III, p 129

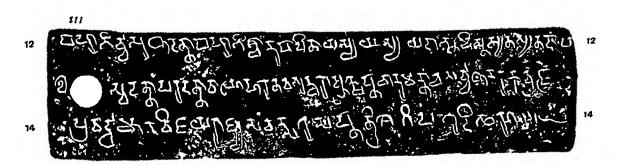
^{*}There are the Parest and plates of Indravarman, above, Vol. XII, p. 133, and the Chikkulla plate Vikra rendurar man II, Vol IV, p. 133

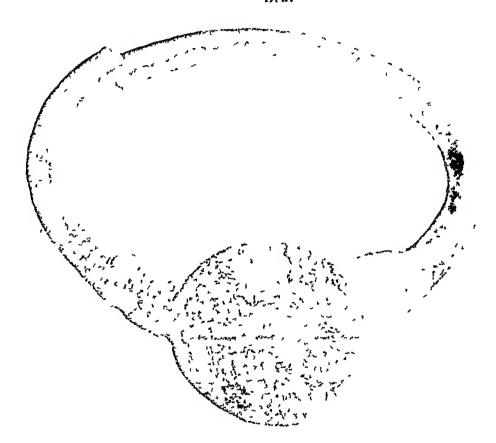
# Ipur Plates of Govindavarman's Son Madhavavarman.











FULL SIZE

guished, in "hundinām= (1.1) i looks like i, and in bhagaiach-Chhrīpaiviata- (11), ś.i-Gūiinda" (13), ind -mahī- (1.4), ī looks like i, t is distinguished from n by a loop on the left but in -janīn= (19) the second n has a loop, and in -jagat-halmashah (17) and -samiatsarē (114) the t has no loop. Final forms of m and t occur in -arttham (1.10), iasundharām and irajēt (113) The numerical symbols 5, 7, and 10 are used in the date (114)

The language is Sanskrit prose (with two verses quoted in 1 12 f), but the abbreviation gi (1 14) presupposes the Prākrit word gimha (= grishma in Sansk t). The incorrect form saptātrisē, (for saptatrimsē, 1 14) seems also to be due to  $P_1ā$ 'crit inhuence. Palatal  $\bar{n}$  is expressed by lingual n in Manchyanna- (1 11). Consonants are doubled after r throughout, and gimha before gimha in  $-\bar{q}$  in  $-\bar{q}$  indulyātasgimha (1 1), while fi is expressed that fi is expressed by lingual fi in fi is expressed by lingual fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in fi in

The inscription records the grant of the village of Vilembali in the Guddādī-vishaya (18f) to the Biāhmana Agniśaiman. The grantoi was the Mahāiāja Mādhavavarman (18), son of the Mahāiāja Gōvindavarman (13), who was a woishipper of the temple at Śrīpervati and belonged to the family of the Vishnukundins (11) Mādhavavarman issued his order to the villagers from his camp at Kudāvāda (18) and seems to have resided at Trivaranagara (14) The executor (ājāā) of the grant was (the king's) 'deai son,' Miñchyanna-bhattārāka (11) Its date was the 15th day of the 7th fortnight of the hot season in the thirty-seventh year of the leign (114)

In consideration of the comparatively early type of the alphabet of this inscription, I feet tempted to identify Mādhavavarman with a king of the same name, who is known to have been the grandfather of the grantor of the Rāmatīrtham plates, and the great-grandfather of the grantor of the Chikkulla plates ¹ For easy reference, I subjoin a tabular statement

Ipūr plates	Rāmatīrlham plates,	Chikkulla plates	
Gövindavarman   	Mādhavavai man       Viki amëndra 	Mādhavavarman       Vikiamēndiavarman I	
	Indravai man (yeai 27)	Indrabhaţţārakavarman  Vikiamēndravarman II  (year 10)	

Of the localities mentioned in this inscription, Śrīparvata (1 1) is perhaps identical with Śrīfailam in the Kaināl District Whether the Guddādi-vishaya (1 8 f) has anything to do with the Guddavādi-vishaya to which Diākshārāma and Chellūr in the Godāvail District belonged, I am unable to say, nor can I identify Vilembali (1 9), Kudavāda (1 8), and Trivarnagara (1 4), which can hardly be identical with the distant Tripuil (Tewai)

¹ See my 1 cmarks above, Vol. XII, p 139, and of the Madras Epigraphical Report for 1920, p 99.

² Bee above, Vol IV, p 195

B See above, Vol. IV, p. 83, Ind Ant, Vol XIV, p 53, text 1 77, Vol XIX, p 424

#### T TXXIT

# First Plate, Second Side

- 1 सस्ति [1*] भगवच्छोपर्व्वतस्त्रामिपादानुद्धातस्य विष्णुजुिः नामपरिमितवन पराक्रमस्य
- परमधार्मिकस्य प्रणतसक्तसामन्तस्यानिकगी चिरण्यभूसिप्रदानस्य सहाराजस्य
- श्रोगोविन्दवर्म्गणः पुन: स्त्रतिमतिवसस्तवधैय्येवोर्व्यविनयसंपद्य:
- 4 समलम्हीमण्ड[ल]म[नु]जपित[प्र]तिपूजित्रशासनः निवदनगरभवनगतयुव-

# Second Plate , First Side

- तिष्टदयनन्दनः 'स्व[न]यवलंविजितसक्तलसामन्तातुलवलविगयनयनिय-
- सस्त्वनपनः स्वन्तनगद्वनिपतिप्रतिपूजितशासनः अग्निष्टोससङ्स्या-
- जो हि[र*]खगर्अंप्रस्तः' एकाद्यायसेधावसृयविधृतवगत्कसपः
- नर्मा[ा] महाराजश्रीसाधववमा विजयस्नन्धावारा[त्*] क्रडावाडवासम-º गुहादिविष-

# Second Plate, Second Side.

- विलेम्बलिग्रामजनान्सर्व्वानेवस[1*]ज्ञापयति यथा10 श्रसी वसगोत्राय व्राह्मणा-
- त्रग्निम्मेणे असादंशविभूत्यत्थेम्¹² सर्व्वपरिचारेण 10 दत्तवानस्मि तदवगम्य सर्व-
- रानपुरुषे: परिहर्त्तेव्य: पानियतव्यस [।*] त्रस्याज्ञा 11 प्रियपुत्र:¹³ सण्चण्ण-सहारकः [|*]

# Third Plate, First Side.

12 बहुभिर्व्वसुधा दत्ता बहुभियानुपालिता  $[\mathfrak{l}^*]$  यस्य यस्य यदा भूमिस्तस्य तस्य

¹ From ant-impressions supplied by Rao Bahadur H Krishna Sastri.

Perhaps समुजवन्त् is intended. Read 'सामनी इतुष्य' Bend वसलसपत्र'.

^{7 Read °प्रस्तिरेकादशा°}

Bend वासमाङ्ग्हारि

¹¹ Bead ब्राधयायाप्रियमेचीउस्य

[&]quot; Read ^oपुत्री सञ्चारण्".

Bead शासनिविद्यवर्.

E Rend व्यासनी दिन्.

⁸ Read सुस्थिर्°.

¹⁰ Read सवासे.

¹² Read outer.

- 18 स[म्॥⁶] खदत्तां परदत्तां वा यो, एरेत वशुन्धरास् [।*] श्राचेता चानुसन्ता च सर्व्वधा नरक ने ज़जेत् [॥⁶]
- 14 प्रवर्षमानविजयराज्यसंबल्धरे सप्तानियी विग प ७ दि १० ५ । TRANSLATION.
- (Inne 1) Hail! The son of the glorious Mahārāja Gōvindavarman, who meditated on the feet of the holy lord of Śrīparvata; (who belonged to the family) of the Vishnukundins; whose power and valour were immeasurable, who was most religious, to whom all vassals were bowing, (and) who (performed) many gifts of cows, gold, and land;
- (L 3) the glorious Mahārāja Mādhavavarman, who is endowed with (knowledge of) the law, intelligence, power, honesty, firmness, valour, and modesty, whose edicts are worshipped by all rulers of men on the circle of the earth, who delights the hearts of the young women standing on (the top of) the palaces of Trivaranagara; who has subdued all vassals by the power of his own arm, who is endowed with unequalled power, modesty, policy, self-restraint, and honesty, whose edicts are worshipped by the rulers of the earth in the whole world, who has performed thousands of Agnishtōma sacrifices, who is a producer of (i.e. who has performed Hiranyagarbhas 4, who has iemoved the stains of the world by bathing at the end of eleven Aśvamēdhas 5, (and) whose religious rites are evenlasting,
- (L 8) from (his) camp of victory, pitched at Kudāvāda, commands as follows all men at the village of Vilembali in the district (vishaya) of Guddādi.
- (L 9) 'For the sake of the prosperity of Our family, I have given (this village), with all exemptions, to this Brāhmana Agnisarman of the Vatsa gotra Knowing this, all royal officers should exempt and preserve it'
- (L 11) The executor  $(\bar{a}j\hat{n}\bar{a})$  of this (grant was the king's) dear son, Manchyanna-bhattaraka.

[Lane 12 f contain two of the customary Ślokas]

(L 14) In the thirty-seventh year of the reign of increasing victory, the 15th day of the 7th fortnight of the hot season.

### No 21.--IPUR PLATES OF MADHAVAVARMAN II.

By PROFESSOR E HULTZSCH, PH D, HALLE (SAALE)

This is another set of three thin copper-plates without rims, which belongs to the same owner as the preceding one (above, No 20). The plates measure 7 inches in breadth and 1½ inch in height and have four inscribed faces, the outer sides of the first and last plates having been left blank. The writing is much injured, especially on the two last faces. The plates are strung on a ring, which is about 3" in diameter, and the ends of which are secured in the base of

¹ Read न्रक 2 Read सप्तित्री

The two last epithets are nearly identical with two others applied to the king before in line 8 f.

⁴ Heranyagarbha is the name of the fifth of the sixteen Mahādānas Cf anēka-Heranyagarbhh-ōdbhavasya in the Mattepād plates of Dāmōdaravarman (above, No 18), text 1 2 f, and apramēya-Heranyagarbha-prasavēna in the Görantla plates of Attivarman Ind Ant, Vol IX, p 102, text 1 8

⁵ The same opthet occurs (with the various reading avadhauta for vidhūta) in the Rāmatīrtham plates, 1. 8 f., and in the Chikkulla plates, 1. 2 f

⁶ Cf above, Vol IX, p 59, note 6.

With g: pa 7 cf. gimhā pakho chhafho 6 in the Mayidai olu platos (abovo, Vol VI, p 88); [g]imhā-pakhs pachame 5 at Kārlō (Vol VII, p 61), the following dates of four Nāsik inscriptions (abovo, Vol. VIII) gimhā pikhe pachame 5 (p, 59), gimhāna pakhe bitīye 2 (p 60), gi pa 2 (p 65); mhā-pakhe chothe.4 (p. 88) and gihma pakkam pidamam in a Malavalli inscription (Vol X, Appendix, p 188, No 1195).

a circular, much worn soil, which is turned towards one side The seal is divided by a cross-line mto two sections In the lower section the legend शीनाधन[बसा]. in two lines, is very faintly visible, while the symbols in the upper section cannot be made out. The weight of the plates, with ring and seal, is 30 tolas

The alphabet reminds us of that of the British Museum plates of Charudevi (above, Vol. The Upadhmānīya occurs in lines 12 and 16 The numerical symbols 7 VIII, p 143)

(thrice) and [40] are used in the date (1 13)

The language is Sinskrit prose (with two verses quoted in Il 14-16), but the abbreviation va (1 13) presupposes the Prairit form vasa (= varsha in Sanskiit) Consonants and doubled after r throughout, t before r in Lahattriya" (1 3 f) and -puttras= (1 5), and ah before y in oddhyātō (1 7),1 while tea is employed for the in -satia- (1 6)

The inscription records the grant of a village, the name of which is doubtful, by Madhayaverman (II) (17), who resided at [Ama]rapura (11), ruled over the Trikuta and Malaya mountains (1 5), was a worshipper of the temple at Sriparvata (1 6 f), and belonged to the tamily of the Vishņukundins (ll 7, 13) His fathel was Dēvavarmin (l 5), and his grandfather the Mahārāja Mādhavavarman (I) (1 3 f) As the alphabet of this inscription seems to be of an earlier type than that of the preceding one, and as grandsons are frequently named after their grandfather, I consider it not impossible that Madhavavaiman II was the grandfather of Gövindavarman's son Madhavavarman,2 who would then have to be designated Madhavavarman III. The first figure of the year in the date portion of the subjoined inscription (1 13) is injured and uncertain

The localities mentioned in this inscription I am unable to identify, with the exception of Trikūta, a mountain on the Bombay side,3 and Malaya, i e the Western Ghāts, both of which were at a safe distance from the dominions of Midhavavanman II, although he professes to have ruled over them For Sriparvata=Srisailam see above, Vol IV, p 195

#### TEXT 4

# First Plate, Second Side

- स्विम्त [1*] [अम]रपुगिटेकादशाश्वमेधावम्यावधूतजगलास[घ]-
- स्याग्निष्टोमसहस्रयाजिनोनिक्तरामन्तमजुटकूटम-
- णिखचितचरणयुगनकमसस्य महाराजस्य श्रोमा-
- धववर्माणः प्रियनमा चिम्नियावस्कन्दप्र[वर्त्ति]ताप्रतिमवि-

# Second Plate, Frest Side

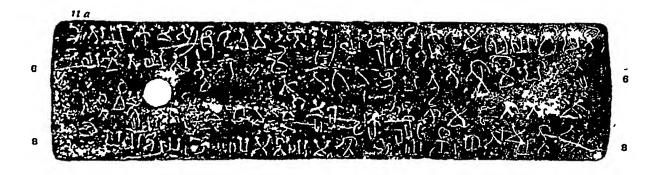
- [स्था]तपराक्रमस्य योदेववर्माण. प्रियपुत्रस्तिकूटमलयाधिणति-
- 6 स्यविनयसत्वसंपन्नी भगवच्छीयर्व्वतस्वामिपादानु-

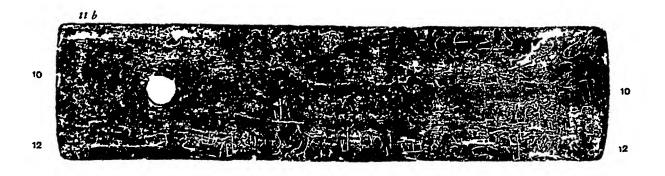
¹ But not in -2rādhyāya (1 8) and d'yānō' (1 1?).

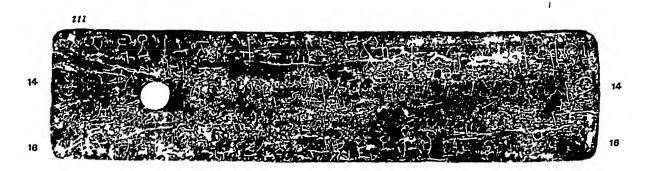
See above, Vol XI, p z20, and cr Vol. IX, p 269.

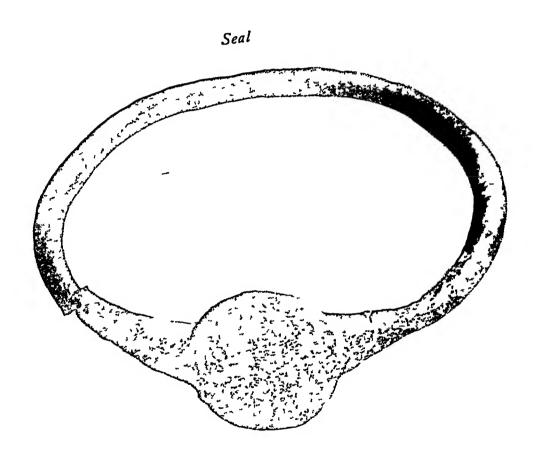
[&]quot; lead 'दर्चभमत्युगदस f Lead GHE











7	द्यात	नी	विष्णु		1	श्र	[म]ाः	ा[वव	]मा	सुरो	-क-कियासे	जनाने[व]माः
8	न्नाप	यति	यथा	II	यमा	नेयम	खाध्य	ायक्रि	यासम	पनास	या-	
					S	scond	Plate	, Seco	ond Si	de.		
9	•	•	•	•	•	•	•	•	•	•	श्रमिश्रमीन	द्र[श्रमाँ]भ्य[ा]-
10	मा	•	•	•	•	•	•	•	•	•	· [南極	]क-
-												

11 ग्रास .

जानपदै ४ परिहर्त्तव्य[:*] [प]रिहार[यितव्यश्व] [।*] श्रस्य 12

# Third Plate , First Side

- [न]स्थाज्ञा विष्णुकु[बद्धिध]र[ा]ज[ध्थानोदात्ता] ॥ सं [४०] ७ टि ७ ग्रों² ॥
- बहुभिर्वेस्रधा दत्ता बहुभियानुपालिता [।*] यस्य यस्य यदा भूमि-
- [स्तस्य] तस्य तदा फल[म् ॥ खदत्तां परदत्तां वा यो हरेत वसुन्धराम् ।]
- [गवां] भतमञ्चसय [इन्तु] 🗡 पिवति किल्लिष[मिति ॥] 16

#### TRANSLATION.

- (Line 1) Hail! From [Ama]rapura, the dear grandson of the glorious Mahārāja Madhavavarman, who had removed the stains of the world by bathing at the end of eleven Asvamedhas, who had performed thousands of Agmishtoma sacrifices (and) whose pair of lotus-feet was studded with the jewels on the top of the diadems of many (bowing) vassals,
- (L 4) the derr son of glorious Devavarman, who displayed matchless, well-known valour in sitacking warriors,
- (L 5.) the glorious Madhavavarman, the load of the Trikūta and Malaya (mountains), who is endowed with policy, modesty, and honesty, who meditates on the feet of the holy lord of Sriparvata , (and who belongs to the family) of the Vishnu[kundins], commands as follows the men at the village of

[Line 8 f seems to refer to two donees, Agnisarman and Indrasarman ]

- (L 12) The command (ājñā) of this edict was ennobled by the meditation (?) of the overlord of the Vishnukundins.
  - (L 13) The year [4] 7, the 7th day of the 7th fortnight of the rainy season 5 Oni. [Innes 14-16 contain two of the customary Slokas ]

¹ Restore perlinps विश्वविद्यानी.

² Expressed by a symbol.

These two epithets occur also in line 6 f of the other Ivur plates (above No. 20).

⁴ Cf asya so-anasy-ājñaplih, South-Ind. Inscr., Vol I, p 57, text 1 119 f

Witu vī pa 7 cf sāsa 6 in the Hīrahadagalli plates (above, Vol I, p 7), varsha-pakshē chaturtthē (Vol III, p. 262), varshā-pakshah ashjamah (Ind Ant, Vol VII, p. 37), rāsā pakham 8 in two inscriptions at Jaggayyapēta (ASSI, Vol I, p 110), vā pa 4 at Kurlē (above, Vol VII, p 64), vāsa pakhe 2 und vāsava pakhe 4 at Nāsik (Vol. VIII, pp 71, 73.) 3 A

# No 22—REVISED TEXT AND TRANSLATION OF TWO OF THE KURAM PLATES.

Bi Professor E HULTZCE, PHD, HALLF

Some time after I had published the Küram copper-plates of the Pallava king Paramēsvaravarman I, the late Professor Kielhorn recognised that plates III and IV of that inscription
in which I had not ced only two verses are all in poetry. I now reprint the very corrupt text
of this portion of the inscription (II 19-19), arianging it in verse lines, correcting the writer's
mistalce as far as I am able to do this, in notes and adding a fresh translation. Rao Bahadur
Krishna Sastri was good enough to contribute to this article a few additional conjectures, viz.
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The subjoined passage consists of 22 verses (5-26). The relative pronouns in verses 5 6 21, and 26 refer to the name of the donor Paramesianarammä, 1 19) at the end of the preceding prose passage. Verses 8-21 form one long relative sentence, describing the king's victors over the Chalukya king Vikramāditya I Verses 22-26 praise Paramēssaravarman's state-elephant Arivārana, his charger Atisaja, his dagger, and his girdle

#### TEXT.2

सचेन्द्रवर्माण: . . . . . पुत्र[:] . . . . . पग्मेचरवर्मा भरत इव सर्व्यद्मन[:*] सगर इव छतासमञ्ज्ञमत्याग: [।*] कर्णो इव पुष्तजागी य: पियक[ा*]व्यो ययातिरिव [॥ ५ ॥*]

(a) Metre of versez 5-9 · Āryā (30+27 mātrās).

भनुपनताना राज्ञा (d) यस्त्राज्ञा क्षपति नर्व्वदापीळा (b) [1*] सैव सष्टदास्प्रयच्छति सुख्योभा (c) कर्ण्यप्रतया [n & n*]

(a) Read राजां (b) Read °पांड: (c) Read ° शीमां.

चतुरः कनाविनाचे नियतम् ययांदो (a) भवत्वनंगस्य [1*] मुक्तागुणस्तु हृदये मुकागुण एव वनिता[ना]म् [॥ ७ ॥*]

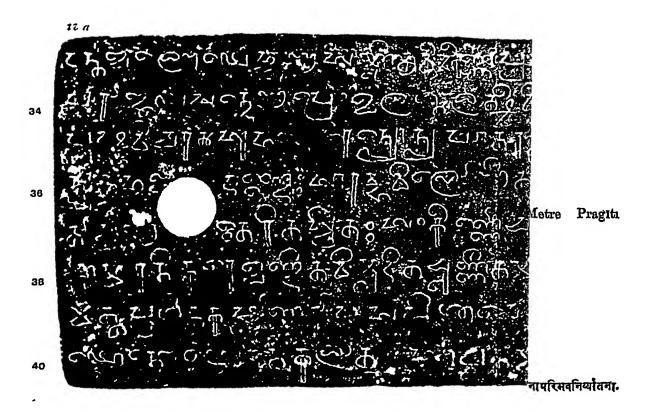
(a) Read नियतं चंडी

भगणितनरहयकरिकुलविसई जनितेन रेगृनुहिनेन [।*]
भारोपितग्रिमण्डलसादृग्यसहस्रकरिक्वे [॥ द ॥*]
पटहरवगिक्तोग्रे विकोभनिस्त्रिभत्विद्युदासोग्रे (a) [।*]
प्रदरितकुष्त्ररजलदे विकालवर्षायतार दव [॥ ८. ॥*]

(a) Read 'निस्विधिवधु (dyu)'

¹ South-Indian Inscriptions, Vol. I, pp. 144 ff.

² As the notes on the text are numerous and contain long Nagari passages, I am using for them ordinary type intend of the small and indistinct note-type, which, as I know from experience, is hable to breaking and dropping





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तुंगतुरंगतरंगे प्रचरवारिमक्षरजनितविषमावत्तो (a) [1*]
 श्रविरकस्दीर्र्णशंखि विनुभसाणे ससुद्र इव [॥ १० ॥*] (b)
        (a) Rend oqii.
                                   (b) Metre · Sugiti (32+27)
  खद्गलतावरणयुति सगरासननागतिलकपुत्रागधने [।*]
 छद्रतक्तक्तक्तमध्ये कानन इव चर्छवेगपवनाक्तिति [॥ ११ ॥*] (a)
        (a) Metre . Āryāgīti (32+32)
  योधापुरोतधनुष (a) व्यतिपतितपतिवष्तिष्ठपवनफये (b) [1*]
  (c) Read oquiquo.
                                                         (b) Read equaqua.
        (a) Read योधापृरितधनुपि.
                                                                                                                                       (d) Metre Pragita
(30+29).
  षान्यीन्यलीगरदनक्कलीशस्थिरिकलितवदनमत्तगजवृन्दे (a)
  ष्मन्योन्वसृहैपातितखद्गव्यतिपक्तत्तरगसादिगणे [॥ १३ ॥*] (b)
        (a) Read प्रयोगरहनक्षित्रस्थिरकौष्ति<sup>o</sup>, (b) Metre Giti (30+30).
  यस्त्रायस्त्रकचाकचिदग्डीर्कियाप्रव्यंत्तभटनने (a) [1*]
  भन्योन्यसदृश्यगणनपरिभवनीर्य्यातना (b) [॥ १४ ॥*]
        (a) Rend श्रम्बाशिकवाक्तिव्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्याविष्या
                                                                                                                        (b) Read °गणनापरिभवनियांवनाः
The remainder of this verse is left out by the writer
  मुश्रमदिमित्रीतशीणितकुकुमधनिलिष्य[मा *]नभूमितले (a) [।*]
  (a) Read सगमदिमिशित°.
                                                       (b) Rend °लीचे
                                                                                         (c) Metre Lalita (30+32).
  स्य इम[स्या]तविदीर्ग्णप्रजवितविद्रुत[सुमित]तीसयपचि (α) [1*]
   अन्योन्यनयपरानयसन्देहप्रेंखलग्नलस्मीविस्ति (b) \begin{bmatrix} 1 & 2 & 1 \end{bmatrix} (c)
         (a) From [447] a to the end, this line is engraved on an erasure. To satisfy the metre
श्रीमसम्पात might be read (b) Read perhaps ° विदित्ते (c) Metre of verses 16-19 Aryagiti.
   क्धिरोघपालिकायीतपतितगजश्रीणपृष्टविचरत्सुभटे (a) [1*]
   श्रन्योन्यघातरन्धानिध[n]मलािक्षयायतिस्थितयोधे (b) [n १७ n^*]
         (a) Read इधिरीपपालिकायित and oggo (b) Read ogyshaulaa.
   यस्त्रीदातभुजदण्डै: (a) सारभविलोहिताचदष्टोष्ठपुटै[:*] (b) [।*]
   राजन्यै[:*] क्षतक्षत्यै: नीहितता र्षे हितस्थतः (c) संकी र्प्णे \mathbf{u} (d) [\mathbf{u} १८ \mathbf{u}^*]
         (a) Read मस्त्री. (b) Read चरमा° (c) Read व्यूलोनिंहताई इतिरित्तात. (d) The metre requires
 Tto be cancelled.
   भ्रीपर्णध्वजातपत्नै[:*] पतितगजय(a)सितचलितचासरनिकरे [।*]
   खिष्डितविस्टितवृष्णितमक्तरंगदहारकटककण्णीभरणे (b) [॥ १८ ॥*]
         (a) Read विज्ञान्य. (b) Read विम्हारांगद्ै.
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क्षिरमधुपानसत्तप्रगीतकूषाग्ड[राच]सपिशाचे [।*]
द[त्त] लयत्त्यकालप्रतिभयनीनृर्त्यम्कवन्यग्रवयोनौ (a) [॥ २० ॥ *] (b)
   (a) Read भयनत्यस्कवसमत्यांनी (b) Meire Giti
[योने]कलाचसाधनमा[योध]नशिरसि (a) विक्रमादिल[म् ।*]
कप्यटमात्रपरिच्छदम्(b) एकाकिपलायितम् [an](r) [n] [२१ n]
                  (b) Read कर्षंट (c) Read न्छदमेकाकिय नायित इसवान्.
   (a) Rend ভ্ৰত
(d) Metre A15ā
रत्रप्रभाखचितकाञ्चनशारिवन्ध (॥)
 सान्नाह्य(b) नागमितवारणनामधेय[H^*](c) [I^*]
नित्यानुबन्धमदनिजरमद्रिनाथ (त)
 साचादिव दिपसहस्रक्ततानियातम् (e) [ | २२ | | * ] (f)
    (a) Read रव° and °वन (b) Read सवाहा
                                          (c) Read 'मरिवार्ण' (d) Read 'निस्ट्रनहिनाई.
(e) Read क्तानुवात्म्. (f) Metre Vasantatilakā
 तिदशपतित्रगस्येवमष्टमंगलयते (a)
  परसञ्चलसम् प्रव्यक्तकत्थाणनाति(b) [1*]
 तुरगमतिश्रयाखां(c) रन्नपच्याणवन्तम्
  सतमपि (d) इयलचैथामरच्छत्रकार्णी:
                                       11 23 11*7 (e)
     (a) Read perhaps °तुरमस्यमांगल्ययात (b) Read perhaps वरमनसस्यामा (c) Read °याद्यं
 श्वपत्यापानन (d) Read युतमि (e) Metre Malini
  समरपरिश्रमस्य सद्वश्महपन्मन्युनवोनम् (a) [17]
  रत्तनखरमनुपम (b) माणिक्यमरकतिनवेशमण्डनम् [\parallel २४ \parallel*] (c)
     (a) Read ° टमसदृश तसममहीपलमालायुजमिकम् (b) Read रव and दमनुपम प (c) Meire Giti.
   स्रच्णगुण गुणन्तकटिस्रतम् उदीर्ष्णम् मणिप्रभम् (a) [i*]
   भासुरिकरणमालिकोटमाणिक्कसनघमिवगुतम् (b) [॥ २५ ॥*] (c)
      (a) Read गुणवरकटिसूनमुदीवर्णन(जण्मन् . (b) Read कोटिमाणिकामनधमिम्युतम् (c) Metre ?
           भवि - - - * र्षियन्यार्त्धिवाना-
   न्दिशि दिशि चटितनित्थी यशम् पुष्पमाला[म्*] (b) [1*]
   द्दम् मचरदशेष (c) सत्तया शत्तलचम्या
   सह वपुषी (d) विशेषालं ते दीरकात्या [ \| \ \ \ \ \ \ \ \ \ \ \ ] (e)
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(a) Read perhaps भवावेषाटावर्षं° (b) Read चितारिर्दे यमां×पु³ (r) Road इयमप्रदेशेष्.

#### TRANSLATION.1

Mahēndravarman's . . . . . son (was) . . . . . Paramēśvaravarman,

(Verse 5.) who was a subduer of all (enemies), just as Bharata (bore the surname) Sarvadamana², who avoided improper conduct (asamañjasa), just as Sagara banished (his son) Asamañjasa³, who possessed a strong body (anga), just as Karņa (was the king) of the rich Angas, who was fond of poems (kāvya), just as Yayāti was fond of (his father-in-law) Kāvya (Usanas);

(Verse 6) whose command always becomes a chaplet on the heads of (* *e* is received with respect by) independent kings, (but) also confers splendour on the faces of (* *e* fills with loy) (his) friends by reaching (their) cars, [just as an ear-ring (karnapāra) becomes an ornament to the face],

(Verse 7) (who) is clever in the sport of fine arts (kulā) (and) constantly passionate in ove, and who avoids vice (mukt-āguna) in (his) heart, (but) also (becomes) a pearl-necklace (muktā-guna) on the breast of (his) wives,

(Verse 21.) who put to flight Vikramāditya,—whose army (had consisted) of several lakhs, (but who was left) quite alone (and) covered only by a rag,—at the head of a battle,

(Verse 8) in which the disk of the sun was made to assume the likeness of the circle of the moon through the mist of dust produced by the stamping of countless troops of men, horses, and elephants,

(Verse 9) which inspired terror through the thunderlike sound of kettle-drums; in which unsheathed swords (reminded of) the curves of flashes of lightning, in which elephants were advancing like clouds, (and which therefore) resembled an unseasonable breaking of the monsoon,

(Verse 10) in which tall steeds (looked like) high waves, in which elephants tore up the ground on their path, just as sea monsters produce whirlpools in diving up, in which conches were incessantly blown (or cast up), (and which therefore) resembled the gaping ocean,

(Verse 11) which contained curved swords and shields (āvarana), (resembling) rhinoceroses, creepers, and varana (trees), which teemed with heroes holding bows and (riding) mighty elephants, (as if it were) covered with śara (grass) and with asana, nāga, tilaka, and punnāga (trees), in which confused noises were raised; (and which therefore) resembled a forest agitated by a violent wind,

(Verse 12) in which bows were bent by warriors, in which the air was obstructed by arrows flying past each other, in which javelins, pikes, darts, clubs, lances, spears, and discuses were flying about.

(Verse 13) in which troops of mast elephants firmly impaled each other's faces with the thunderbolts of their tusks, in which squadrons of horsemen were connected by their swords that had struck each other's heads,

¹ To make the construction clear, I had to place verse 21 before verse 8

² Cf Mahābhārata, I, 74, 8, VII, 68, 7, and Śakuntalā, ed. by Cappeller, p 98, 1 2, p 95, 1, 24; p, 97, 1, 8; p 102, 1, 21

In the epic poems he is called Asamatija or Asamatijas.

The poet seems to hint a comparison of the king to the moon, who is 'charming in the splendour of his digital (kalā),' and to Siva, who 'was angry with the god of love.'

- (Verse 14.) in which soldiers were engaged in fighting with avoid against award, pulling of hair against pulling of hair, and club against club; . . . . . . considering each other as equal (or) despising (each other),
- (Verse 15.) in which the ground (seemed to be) thickly smeared with saffron, as the blood (of the wounded) was mixed with the musk (anointing their bodies), in which (both) large armies had lost and dropped arms, necks, shanks, thigh-bones, and teeth,
- (Verse 16) in which, during the encounter, both parties were broken, arged on, put to flight, and stretched on the ground, which was witnessed by the goddess of fortune sitting on the swing of doubt about mutual victory and defeat;
- (Verse 17.) in which brave warriors were marching on the back of lines of fallen elephants forming a bridge over the flood of blood; in which soldiers stood rendered motionless, as their blows did not hit each other's weak parts;
- (Verse 18 f) which was covered here and there with elephants which had fallen (simultaneously with shattered banners and parasols), and whose respirations waved the mass of chowries and with dead (or) half-dead warriors who had done their duty, whose strong arms (still) raised the weapon, whose hips were bitten, and whose eyes were deep-red with fury, in which traras, armlets, necklaces, bracelets, and ear-rings were broken, crushed, and pulverized,
- (Verse 20) in which Küshmandas, Rākshasas, and Piśachas were singing aloud, as they were intoxicated by drinking the liquor of blood, (and) which contained hundreds of headless trunks dancing together in a fearful manner and beating the time (with their hands)
- (Verse 22) Having caused to be accounted the elephant named Arivārana,—whose golden howdah was studded with the splendour of jewels, the flow of whose rut was incessant, (and who therefore) resembled the king of mountains (Himālaya) himself, whose torrents never cease to flow,—followed by thousands of (other) elephants,
- (Verse 23) also the excellent horse named Atisaya,—who displayed the majestic stepping of the horse of the lord of gods (Indra); who manifested his noble breed by his active jumping; (and) who bore a saddle (set with) jewels,—accompanied by lakhs of (other) horses whose ears were surmounted by chowries;
- (Verse 24) (and having put on) an unique and unequalled curved dagger (set with) jewels, which was fit for the fatigue of battle, attached to a string of matchless big stones, (and) ornamented by being inlaid with rubies and emeralds;
- (Verse 25.) (and) a valuable, priceless, famous girdle (which was strung) on a soft string, which emitted the splendour of gems, and the ruby at the end of which (resembled) the bright sun;
- (Verse 26) he (viz Paramēšvaravaiman) who had destroyed his enemies, inspiring with fear [and despair] the minds of princes, (and spreading) the flower-garland of (his) fame in all regions, carried all these (ornaments) on (his) body that was highly adorned with heroic deeds,—along with the powerful goddess of fortune clinging (to him)

¹ This seems to refer to verse 241.

# No 23-DILANAIDAHA COPPER-PLATE INSCRIPTION OF THE TIME OF KUMARAGUPTA I THE YEAR 113

BY RADHAGOVINDA BASAK, MA, CALCUTTA.

This inscription, engraved on a thin copper-plate which now looks very much worn out and fragile was discovered about a decide and a half ago in a village called Dhanaidaha in the Nature Sub-division of the Rajshihi District in the Rajshahi Division of the Bengal Presidency. Babu Akshaya Kumāra Matiroja, B L., Ducctor of the Varendra Research Society of Rajshāhi, obtained it from Miulvi Muhammad Eished Ali Khan Choudhuri (now Khan Bahadur), and it is now deposited in the Museum of the Society along with the five copper-plate inscriptions! of the Gupt's period recently discovered at Damodarpus in the District of Dinappur edited in 1909 by Mr. R. D. Banery, then of the Calcutta Museum, in the Journal of the Asiatio Society of Bengal (Vol. V. No. 11, pp. 159-61). Mi Banery's decipherment of the inscription was not counci, and the te t as prepared by him contained some mistakes. Mr Vincent Smith in his barly History of India (3rd Edition) has referred to this enigraph by the name of the Natore inscription in a foot-note at page 327, but he could not make out any material for the history of the period, probably because Mr Banery's reading was unsatisfactory and because of his is marks that "the wording of the record is rather difficult to interpret," and that "no continued translation is possible of the text" While editing two of the Damodarpur inscriptions belonging to the same monarch's reign, I had to revise the reading of this inscription, and I re-edited it in the Bengali monthly, the Sahitya of Calcutta, in the Pansha I now record the results of my decipherment in this Journal for the scenting of scholars. Some of the chief mistakes in Mr Binorji's reading will be pointed out below in Other differences in our readings may be left to be found out by those of our the foot-notes reader, who may care to do so

The inscription is a fragmentary one, consisting of 17 lines of writing incised in the early Gupta characters of the 5th century AD It is written on one side only of the plate, which is now very much consided. In length the full plate seems to have been almost twice the fragment now preserved, which measures  $5\frac{1}{4}$  ×  $5\frac{1}{4}$  Almost the whole of the proper right half of the plate is broken and lost together with the upper right and lower left corners. From an examination of the portions of the writing preserved in lines 14-16, which form parts of the wellknown imprecatory verses, it can be ascertained that about a dozen and a half letters are out off from the proper right side of each of the lines This loss of almost half of the inscribed portion and the extremely blurred state of the letters preserved are the greatest obstacles in explaining the document But the five newly discovered Damodarpur copper-plates and the four Fandpur grants' have helped us much in deciding that the present plate also, like them, is not an ordinary royal land-grant, but is a sale-deed embodying the record of a purchase of land for the purpose of donation Mr Baneiji states that the tragments of the proper upper right corner, which was broken in the exhibition grounds of the Calcutta Industrial Exhibition of 1906-7, contained the two letters ma and ra, which, he thinks, were evidently the second and third syllables of the name of the emperor Kumara-gupta. The inscription is dated in 113, which must be referred to the Gupta era, and this evidently proves that it belonged to the time of the Gupta

[&]quot;I Above, Vol XV, No 7 I take this opportunity to acknowledge most thankfully the suggestion of Mr K N Dikshit, M A, Superintendent of Archeology, Eastern Circle, that I should have read 128 in place of 129 and 224 in place of 214 as the dates in Plates Nos 2 and 5 respectively of the Dāmodarpur inscriptions. These corrections in the dates do not quite materially affect the historical deductions I made in my paper on them published in this Journal.

² Indian Antiquary, 1910 and J. A. S B, 1911, No 8.

monarch Kumāra-gupta I The language of the inscription is Sanskrit, and it is in prose throughout excepting in lines 14-16, which contain the three imprecatory verses. Mr Banery's statement that "the bad state of preservation makes it very difficult to make any remarks on the orthography" cannot be upheld, for, the following points in respect of orthography may easily be observed.—

- (1) as in the Dāmodarpur copper-plates, the sign of the medial ā is attached by a hook-sign towards the bottom of the lower right of some of the letters, especially of kha, ga and na, eg khāsaka 1 5, Khādā(tā?)pāra-1 7, grām-āshṭa-1 6, and gun-āguna-1 13,
  - (2) the sign of dvagraha is not used, as in -vishayē=nuiritta-1.7;
- (3) the letters ga, na, ta, ma, ya and va (and not sha, e g varsha-1 15) are doubled with a preceding  $\tau$ , e g. vargga-1 4, svarggē l. 15, utktrnnam 1 17, kīrtti l 4, -sarmma 11 3 and 5, dharmma 1 8, -maryyādā-1 7, and -pūrvva 11 2 and 16, sarvra k. 9,
- (4) m has sometimes been joined with following pa and ra, e.g. in scadattam-paradattam-val 14, and
  - (5) ka has been doubled with a following r, e.g in khramëna(na) 1 8

The form of the initial vowels \$\bar{a}\$, \$\circ\$ and \$u\$ are seen in the following words respectively, \$\bar{a}yuktaka 1 11\$, \$iha 1. 7\$, and \$utkirnnam 1. 17\$. The form of the letter \$m\bar{e}\$ in \$kkram\bar{e}na(na)\$ 1 8, \$sarvvam=\bar{e}va 1. 9\$, \$Stha(Sta)mbh\bar{e}svara 1. 17\$, and \$-kulyav\bar{a}pam=\bar{e}kam^2\$ l 11\$, is to be noticed. For a similar incision of \$m\bar{e}\$, especially the \$\bar{e}\$ mark in it, we may compare the words \$k\bar{a}vyam=\bar{e}sh\bar{e}m^2\$ l. 31 in Fleet's, C. I. I Vol III, No 1 and \$guh\bar{a}m=\bar{e}t\bar{a}m\$ l 5 (ibid, No 6), and the word \$d\bar{o}shagram\bar{e}l\bar{a}m^2\$ l 1 (wrongly read as \$d\bar{a}s-\bar{a}gr\bar{e}na\$ by \$Mm\$ H P \$\bar{e}\bar{a}stri \$and \$Mr\$ R D. Banerji)\$ of the Susuma Rock Inscription (above, Vol XIII, p 133) In my paper on "The Five Damodarpur copper-plate inscriptions of the Gupta period," published in this Journal (vide Vol XV, Part III), I made a remark at the outset that those sale-deeds, which our present inscription resembles, "may be regarded as having roughly six different parts in the form in which they are drawn up" The same remark holds good with regard to this inscription also the first part ends with the word \$vij\bar{a}pita 1 7\$, the second with \$d\bar{a}[tum]\$ 1 8, the third with \$tad=aradhritam=its\$ yatas 1 10, the fourth with \$\bar{e}kam dattam 1 11\$, the fifth with \$-Var\bar{a}ha-sv\bar{a}min\bar{o} dattam 1. 12\$, and the sixth with the rest of the grant

The contents of the inscription may be stated as follows:—In the year 113 GE (=432-33 AD), belonging evidently to the reign of Kumara-gupta I, some one (very likely a royal officer, an cyuktaka) whose name seems to have ended in -vishnu (1 7) approached the village householders, the mahattaras and the ashta-kul-adhikaranas and perhaps also the local government of the district and expressed to them his desire to purchase one kulyavapa of cultivated land by paying the price at the usual rate prevalent in the vishaya of Khādā(tā?)pāra It seems that the applicant wanted to buy the land by destroying the nivi dharma (the non-transferability of it), te with the right of alienation His prayer was granted and the purchased land was severed for him by proper measurement. He in turn seems to have made a donation of the same to a Samavēdin Brahmana (chhandoga 1 12) of the name of Varaha-svāmm It seems very probable, though the mutilated condition of the plate does not permit us to be very confident on the point, that the Dhanaidaha plate contained a reference to the Pundravardhana bhukti being under a governor appointed by the Gupta ruler (compare the Damodarpur plates of the years 124 and 128 GE, belonging to the same monarch's reign) and that the vishaya of Khādā(tā ?)pāra was, like Kötivarsha, one of the many districts of the same bhukts. In the Khālimpur copper-plate! of Dharmapala, King of Gauda, though of the 9th century AD., we have the names of two other mshayos, viz. Mahantaprakasa (l. 31) and Sthalikkata (l. 41), as being situated in the bhukts of And the first and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

# Dhanaidaha Copper-plate of the time of Kumaragupta I the year 113



I edit the inscription from the original plate -

#### TEXT.

1	•	mvatsara¹-śat[ē] trayōdaś-ōtta³-
2	•	· n=d[1]\asa³-pūrvvāyām parama-daivata-para-4
3	•	brāhmana-Śıvaśarmma-Nāgaśarm= ma-maha-5
4	•	· · · · · va-kīrttı-Kshèmadatta ⁶ -Göshţhaka - Varggapāla - Piṅgala - Śunkuka-Kāla-
5	•	pa (?)-vishņu - [Dēva]śarmma - Vishnubhadra ⁷ - Khāsaka - Rāmaka-Gāpāla-
6	•	sa (?) su (?) Śribhadra-Sōmapāla-Rām-ādyāh (?) grām-āshta-kul= ādhikarapañ=cha
7	•	. vishnunā (?) vijnāpitā iha ⁸ Khādā(tā ?)pāra-vishayē=nuvņitta ⁹ = maryyādā-sthi[ti]-
8	•	nivī-dharmma-kshayēņa labhya[tē] [ta]d=arhatha mam ¹⁰ =ādy= ānēn=aiva kkramēna(pa) dā[tum]
9	•	samētya=ā(?,bhilitai(h ?) sarvvam=ēva * jūā(?)kara-prativēsi(?)= kutumbibhii=avasthāpya ka-
10		* ıi * kana * yad=ıtō * * [ta]d=avadhrıtam ¹¹ =ıti yatas= tath=čtı pratıpādya
11	•	vaka ¹⁹ -nalá[bhyā]m=apaviñchhya kshētra-kulyavāpam=ēkam dattam tatah āyuktaka-
12	•	* bhrā(?)trı - kaṭaka - vāstavya¹³ - chhandōga - bɪāhmana - Varāha= svāmınō dattam tad=dha-[va?]
13	•	bhumyā dā[n=ākshē]pē cha guṇ-āgunam¹⁴=anuchintya śarīra- ka(kā)nchanakasya chi-
14	•	
15	•	[bhih] saha pachyatē [  *] Shashṭim ¹⁵ varsha-sahasrāni(ni) svarggē mōdati [bhū]midah [ *]
-		Cond sampateages 2 Day 2 Start

Read samvatsara. 2 Read -õttarē. 3 Read asyān=dii asa-

[•] Read -paramabhaffaraka. In the Dāmödarpur plates also Kumāra-gapta I is styled parama daitata.

Read, perhaps, mahattara-

^{• &}amp; 7 Mr Banery reads Kshamavanta and Vishyabhadra.

Mr Banorji reads Mahā-khushāpāra

Mr Banorji reads nivatta instead of anuvritta

¹⁰ Mr Banerji's reading "māśādya nanu vakkra lēna (?)" instead of our reading "mam=ādya=ānēn=aiva kkramēna(na)" and his remark on the paleography of his supposed la in his own reading lēna (?) is unwarranted

¹¹ Instead of avadhritam=iti yatas=tath=ēti Mr Banerji rend dahyakam=iti yatas=t(y)ajati

it Mr Bauerji reads vantēbhya (?) for vāstavya and chāndafa (?) for chhandāga.

¹⁴ Mr Banerji reads funu (?) gunam.

¹⁴ Mr. Banerji reads fashfo(m).

- 16 . [Pū]rrva-dattām dvijātibhyā yatnād=raksha Yudhishthira mahim [mahi][matan=chhreshtha*]
- 17 Śribhadrēna(na) ya[m] utkirnnam . śvaraldāsē[na] su (?) Stha(Sta)mbhē-

#### TRANSLATION.

In the year one hundred exceeded by thirteen . . . . . on this day (as above specified), [during the reign of] parama-dawata parama-bhattāraka, etc Kumāra-gupta . . the ryots (of the village) . . . . the Brahmanas Śiva farman, Nāgaśarman and the Mahattaras² [Dē?] vakīrtti, Kshēmadatta. Gōshthaka, Varggapāla, Pingala, Sunkuka, Kāla . . . . . , -vishņu, Dēvašarman, Vishņubhadra, Khāsaka, Rāmaka su (?) Śribhadra, Sōmapāla, Rāma and others, and the officer3 in charge of eight kulas in the village were informed by (some officer whose name appears to have the ending Vishnu 1. 7) as follows —

"In this vishaya of Khada(ta?)para the established custom (regarding the sale of cultivated land) prevalent . . . . to be had (at . . . . such rate) by the nullification of the custom of permanent endowment4 (nīvi-dharma) So deign to make a gift (of land) this day according to this method . . . by the neighbouring house-holders who are obedient and who are (thus) addressed establishing

Whereas it was so determined, and whereas this determination was accepted by the statement "be it so"—one kulyavāpa5 of cultivated land was given to him, with its area severed6 by the measurement of 8 x 9 reeds.

Then the same land was given to the Chhandoga (Samavedin) Brahmana Varaha-svamin, an inhabitant of the kataka8 of . . . , by this official9 (āyuktaka)

So, considering the merit and demerit respectively of making a gift and confiscating (it), and (the unstability) of body and gold, (this gift is to be preserved) To the same effect has been stated thus by Bhagavān Dvaipāyana (Vyāsa) —

- (1) Whoever confiscates land given by himself or by another becomes a worm in ordure and rots with his forefathers.
- (2) Land has been given by many kings, such as Sagara and others the reward (of these grants) belongs to whosoever at any time possesses the earth.
- (3) O Yudhishthira, best of land-lords, preserve with care land already given to the twiceborn (Brahmanas); for, the preservation of land-grants is more mentorious than the making of a grant. Engraved by su (?) Śrībhadra and (written) by Stambhēśvaradāsa.

¹ Mr Bane-ji reads the name as Sthahnelvara

² Fide my note on this word in Plate No 4 of the Damodarpur collection, above, Vol. XV, p. 187.

Fide my note on this word, sold, p 137 Mr Banerji's explanation of this term as "a local officer (bulddhikarana) who exercised authority over eight villages" does not seem to be correct. He was rather an officer in the village having supervising authority over eight kular (for the technical meaning of which see Kullüka's

Fide my note on the term nirs in Plate No 1 of the Damodarpur collection, above, Vol. XV, p. 121, n. 8, and Indian Antiquary, 1919, p. 14. Fide my note on this word on p 132, above, Vol. XV.

The word apartickhya occurs in the Peridpur grants (Indian Antiquary, 1910) and in Dâmôdarpur plata-Ka. 8, 1, 10, p 186, above, Vol. XV.

Chlandoga means one studying the Samaveds. For the use of this term vide Manu, III, 145, and the Escathera Plate of Harrina, above, Vol. IV, p 211. · Kefake may either mean a camp or the capital.

^{*} File my nove on the same in Plate No. 4 of the Damoderpur collection, p. 140, shove, Vol. XV.

# No 24.—SOME IMAGE INSCRIPTIONS FROM EAST BENGAL.

# BY NALINIKANTA BHATTABALI, M.A., CURATOR, DAUGA MUSEUM

The short votive inscriptions recorded on the pedestals of images are often very useful to the antiquarian in more ways than one. They not only illumine the darkness of the past like flash-lights by furnishing pointed and concise historical information, but the help that they give in determining the periods of sculptural history is by no means inconsiderable. Students of iconography too have reason to welcome them, since many votive inscriptions contain the names of the images on whose pedestals they are inscribed, helping thus to identify them easily. Below I edit six such votive inscriptions from East Bengal, in some of which all the three characteristics noted above will be found to exist to the fullest degree

# 1. THE BHĀRELLĀ NARTTĒŠVARA IMAGE INSCRIPTION

The worship of images of Natēśa-Śiva (the dancing Śiva) seems to have been a peculiarity of Southern India Such images in metal abound in Southern India and Ceylon; but they are very rarely met with in the North-Indian Provinces How Bengal came to share this peculiarity with the Deccan is one of the unsolved problems of history. We must, however, note here that north and west Bengal do not show this peculiarity, and it is only in the south-eastern districts, roughly comprising the ancient divisions of Vanga and Samatata, that images of the dancing Śiva were discovered. The Dacca Museum has three excellent specimens, while a rather ill-preserved one is to be found in the Rājshāhi Museum. I know of two other very well preserved Natēśa images, which are being worshipped in two villages in the Dacca and Tippera districts of East Bengal.

The discovery of so many images of the same class in a rather limited area cannot be accidental, and it is quite possible that their worship was introduced by some Saiva ruling family. The Sēna kings, whose origin some trace to the Decean, had their metropolis in Vikramapura in the Dacca district, in the heart of the ancient Vanga, as is attested by the majority of their copper-plates, and they were renowned Saivas. It is very probable that the worship of Natēša-Sīva came from Southern India with the Sēnas. It is worth noting that out of the seven images so far discovered and known to me, five came from Yikramapura, and a village situated in the suburbs of the capital of the Sēnas in Vikramapura (a pargana in the Dacca district) contains the ruins of a big temple and is still called Nātēśvara. The present image, however appears to be earlier than the Sēnas

The inscription here edited was found on the pedestal of a huge image of Natesa-Śiva dug out of a tank in a village called Bhārellā, Police Station Badkāmtā, in the district of Tippera. It was brought to my notice in 1911, and in 1912 I went to Bhārellā too late to save the image, which was broken to pieces by a fanatic Fakir, but I procured the inscribed pedestal for the Dacca Sāhitya Parishat, where it is at present preserved. A large fragment of the figure of the god is now in the Dacca Museum I édit the inscription from the original

The inscription is in two lines in four sections on four planed faces of the pedestal, below the lotus-seat of the god. The whole inscribed surface measures in length about 14", and the letters are approximately 1 long. The first section has suffered a little by the peeling of the stone, while the beginning of the third and the longest section has been altogether chopped off, damaging altogether 12 or 13 letters of each line. The first line runs connectedly to the end of

¹ The image was found in the village of Kalikal under Police Station Lauhajang in the Dages district. So it must not be taken as an instance of a find in north Bengal.

the third section and then returns to the first section to begin the second line The name of the sculptor is given in the fourth section in two lines

The characters used are the ordinary north-eastern characters which gave birth to the modern Bengalı script, and which even at this stage show distinct resemblance to the modern script of Bengal Paleographical considerations would lead us to assign the latter half of the 10th century as the time when this inscription was incised. The date is missing, but it may be that the lost portion of the second line in the beginning of the third section contained a date. There are some data from which a date perhaps is obtainable by mathematical calculation. The image was consecrated on a Thursday, under the star Pushya, on the fourteenth day of the dark half of the month, the day being the 14th of Ashadha counted by the movement of the moon It would be a very interesting calculation to lovers of astronomical problems to find out in which year or years between 900-1100 AD all these data met I myself do not possess the necessary equipment for the calculation Dewan Bahadur L D Swamikannu Pillai who was consulted by Mr. Krishna Sastri on my behalf kindly writes .-

"Between 900 AD and 1000 AD there are three dates which agree perfectly, viz A.D 912, 939 and 983 I have marked these with an asterisk in the accompanying list which shows also dates of less perfect agreement. There must be an equal number between AD. 1000 and AD 1100 We cannot tell which of these dates is meant

Thursday Ashadha, ba 14 Pushya A.D 905 Th 4 July; .32, n f d 75 A.D 912 Th 16 July, .09, 63* AD 925 Th 21 July, f d t 52, f d. n 68 A.D 932 Th 5 July; 52, f d n. 90, A.D 939 Th 18 July, 41,.86* AD 942 Th 14 July, f d. t 12, f d n 89. AD 966 Th 19 July, .71, f d n 09 AD 969 Th 15 July, f d. t 21; f d. n 90.

A.D 983 Th 12 July, 03, 94*

A.D 993 Th 20 July, f. d. t .01, f d. n .30"

He adds "14th tithi means nothing more or less than 14th day by the movement of the moon. A solar month date would be different, but in a lunar month the days and tithis are the same in the Indian Calendar . In the Muhammadan, Jewish and Greek Calendars there may be a slight difference"

The inscription refers itself to the 18th year of the reign of a king Layaha-Chandra by name Kings with the surname Chandra are found on the thrones of two adjacent countries, viz Vanga and Arakan The Chandra kings of Vanga, who, like the Sena and the Varman kings, had their capital in Vikramapura, are known from two copper-plates 1 But no name in their geneology resembles Layaha-Chandra, which sounds indeed rather outlandish. We find an account of the Chandra kings of Arakan in Phayre's History of Burma, p 45. and Numemata Orientalia, Vol II, Pt I, p. 42, by the same author, where we learn that the dynasty came to an end in 957 A.D. We know of another isolated Chandra king of Vanga, Gövinda-Chandra by name, from Rājöndra-Chōla's inscription ² Layaha-Chandra-dēva must have belonged to one of these three lines If Layaha-Chandra was of the Arakan line, 939 A. D may be taken as the date of this inscription

Ep Ind., Vol XII, p 186 and Dacca Review, Vol II, p 250 Recently a third plate of Srī-Chandra, pers was found and edited by me in the Narca Review for May and June 1919, 17 KII. 1919. Ep Ind , Vol. IX, pp. 232-288,

Ballads, at one time very widely popular are current about a king called Gövinda-Chandra throughout Bengal One was published by Grierson'in J. A. S. B., 1873. Another was published by Babu Sib Chandra Sil from Chinsura near Calcutta. I published a version by a poet called Bhabānidās, edited from two manuscripts of the song procured from the Tippera district. All these versions say that Gövinda Chandra was the daughter's son of Tilak Chandra king of Měhārkul which is still a pargana of the Tippera district. Gövinda Chandra of Rājēndra-Chōla's inscription and the Gövinda-Chandra of the ballads appear to have been the same person, and Layaha may have been the name of the father of Tilak Chandra.

Kusuma-dēva, whose son Bhāvu-dēva consecrated the image of Narttēśvara, seems to have heen a vassal prince under the suzerainty of Layaha-Chandra, ruling over Karmmanta, which I am inclined to identify with modern Badkamta (the senior Kamta), some three miles southwest of the find-place of the image Badkainta is still a place of considerable importance, being a police station with a big Zemindary kachery, situated within a spacious area surrounded by an ancient moat and containing two big tanks, in the smaller of which many ancient stone images of Stone images, both Buddhist and Brahmanical, abound in the Brahmanical deities were found villages surrounding Badkamta, and testify to the former prosperity of the tract. The area surrounded by the most probably indicates the site of the palace The appellation Deva at the end of the names of Kusuma-deva and Bhāvu-deva is also in favour of supporting their claims My friend Prof Rådhägövinda Bäsak, MA, however, is in favour of taking to royal dignity the word Karmmanta to mean 'a store of grain,' and degrading Kusuma-deva to the rank of an officer in charge of the royal granary We know that the two plates of Deva Khadga published by the late Gangamohan Laskar in the Memours, A. S B, Vol I, were issued from Jaya-Karmmanta. I have elsewhere tried to show that Karmmanta the capital of the Khadgas and the Karmmänta of the present inscription are identical, and is the present Baḍkāmtā (J f A. f S f B., July 1914)

The language of the inscription is Sauskrit prose throughout As to orthography, we may note the doubling of consonants after r as in  $karmm\bar{a}nta$  (1 1),  $sarvv\bar{a}kshara$  (1 2), etc, but  $chaturdasy\bar{a}\dot{m}$  (1 1) is spelt with one d

Numeral figures for 1 and 4 are used in designating the 14th day of Ashadha

The letters of the inscription are mentioned to have been engraved by one Ratōka, but Madhusūdana seems to have been the sculptor who made the image.

## TEXT.

#### Part I

- 1 [सिडिरस्तु¹] श्रीमक्षयहचन्द्रदेवपादीयविजयराच्ये श्रष्टा[दश * * * * क]णाचतुर्दछां तियौ वृष्ट्यति²वारे प्रयानचत्रे वामान्तपालश्रो-
- 2 कुसुमदेवसुत्रश्रीभावुदेवकारितश्रीनर्त्तेश्वरभट्टा[* * * * * * *] पन्द्रगत्या प्राषाढदिने १४ ॥ खनितच्च रतोकेन सर्व्याचरः

#### Part II.

- 1 खनितञ्ज श्रीमधु-
- 2 सुटनेमिता ॥

¹ Expressed by a symbol, see below, p 352.

² Read गुरुश्ति-

N B-It is customary to read the auspicious symbol Q or 2 in the leginning of en inscription as A and this interpretation has been adopted by eminent epigraphic's like Hocicle and Fleet Hoerale writes thus (Intro Bouer Manuscripts, Indian Antiquary reprint p 22) -"Indian manuscripts or records as a rule commence vith rome boundariors word, such is reddligm 'success' or swasts 'hail' or with the sacred particle Om The last mentioned is almost universally used at the present day It may be either virtien in full or indicated by a symbol. The latter takes the form of a spiral, which may turn either to the right or to the left, and which is probably a conventional representation of the sacred fartha, or covel-thell' editing the Mankuwar Stone Image Inscription of Kumara-gupta, where this symbol is not with for the first time, Dr. Fleet remarks (Corpus Ins Ind , p 46, n 3) -- " As was usual throughout the whole of the period covered by this volume, this word is represented by a symbol, not by Om is not of very frequent occurrence at the commencement of Buddhist instructions" Thus both the scholars read the symbol as Om, but none has advanced any reason for their reading it so Writing about eight centuries and a half earlier. Al Berum also says the same thing (Vol I, p 173) -"The Hindus begin their books with Om, the word of creation, as we begin them with 'In the name of God' The figure of the word Om is This figure does not consist of letters, it is simply an image invented to represent this word, which people use, believing that it will bring them a blessing and meaning thereby a confersion of the unity This passage of Al Beruni is perhaps responsible for the confident reading of Hoernle But the reading should be reconsidered in the light of the following points and Fleet

- (a) In Bengal, this symbol was largely used in all ancient documents and manuscripts and in teaching alphabets to beginners they were taught to draw this symbol to start with. This custom was prevalent as late as twenty-five years ago, but has disappeared by this time. This symbol was called āmji and was supposed to signify the god Gancéa, the giver of success, being drawn to represent his elephant's trunk. In reading, it was read Siddhir-actures.
- (b) In the Gupta inscriptions this symbol only appears in those in which the customary benediction Siddham is left out, and nowhere does it appear with it Consequently it must have stood for Siddham, and as time went on it must have become more and more customary to represent the word by this symbol
- (c) In some inscriptions the symbol is found to precede  $O\dot{m}$ , which would never have been the case if the two were identical. In such cases the reading given is Om Om, which is certainly not reasonable. Reference may be made to  $Eparaphia\ Indica$ , Vol. XII, p  $\xi$ , Ibid, Vol. XIV, p 159, for examples of the joint use of  $O\dot{m}$  and this symbol.

In view of these facts, the symbol, I think, should be read Siddham or Siddhirzastu!

## TRANSLATION.

#### Part I

May success attend! In the eighteenth year of the victorious reign of His glorious Hajesty Layahachandra-dēva, on Thursday in the dark Fourteenth Tithi, and under the star Pushya, Bhāvu-dēva, son of Kusuma-dēva, Lord of Karmānta, caused to be made the Lord Narttēśvara . . . on the 14th day of Āshādha (calculated) by the movement of the moon And all the letters engraved by Ratōka

## Part II.

Also engraved by the illustrious Madhusudana.

In the Tamil country the same symbol slightly modified 2 is even today called the Pillaryar-full Ganesa's surl' and is first taught to be drawn by children before they begin to learn their alphabet—Ed]

# 2. THE BÄGHÄURÄ NÄRÄYAŅA IMAGE INSCRIPTION.

This inscription was brought to my notice in 1912, when I went to Tippera to secure the inscription described in the foregoing pages. Ramānath Chakravaity, a former pupil of mine, whom I met in Comillä, gave me to understand that an inscribed image of Vishnu had been discovered in a village near the Sub-divisional town of Brāhmanbānā in the Tippera district and that the local people had been able to read the word. Mahipāla on the inscription. My curiosity was considerably roused to come across an inscription of the Pāla kings so far east from their native home in north Bengal. Pressure of business, however, did not allow me to go after the inscription at that time, and for the next two years I was too busy elsewhere to think of getting at it. Towards the beginning of the year 1911 a friend of mine, Babu. Upendrachandra Guha, BA, BT, who is an enthusiast in matters archeological, secured chalked photographs of the inscription and published an article with a reading of it in the local monthly, the Dacca Review. The reading, however, was rather defective, and I gave a more correct reading in the next number of the January I also published a correct reading of the inscription in the January number of the January and pointed out its importance.

The image containing the inscription was dug out of a pond some ten or twelve years ago in the village of Bäghäurä near the Sub-divisional town of Brähmanbäriä in the district of Tippera. It is now worshipped by a half-crazy woman in the neighbouring village of Vidyākūta. In January 1915 I visited the spot and obtained some excellent photographs of the image, but no amount of persuasion could prevail upon the woman to part with the image.

The inscription purports to be of the third year of king Mahīpāla, presumably Mahīpāla I of the Pāla dynasiy of Bengal. It records the installation of the god Nārāyana in Samatata, included in the kingdom of Mahīpāla, by a merchant, Lōkadatta, son of Vasudatta and hailing from the village of Bilakīndakā, in furtherance of the religious merit of himself and parents Bilakīndakā is in all probability the village Bilakēnduāi, situated close to Bāghāurā

The importance of the inscription is twofold. First, it definitely settles the position of the kingdom of Samatata There is no room for doubt now that the village of Bilakendusi must have been inside the kingdom of Samatata Now let us recall what Yuan-Chwang says The pilgrim came to the country of Samatata going 1,200 or 1,300 ls south of Kamarapa Taking 5 li to 1 mile, 1,200-1,300 li represent about 250 miles country of Samatata was about 3,000 le (1 e 600 miles) in circuit and bordered on the great sea. Now, if we look sound for the country which The land lay low and was regularly cultivated must satisfy all these conditions and at the same time must include the Brāhmanbāriā Subdivision of the Tippera district, in which the village of Bilakenduai is situated, and if we remember that natural barriers such as mountains and rivers marked off one kingdom from another in those days, we cannot but accept the plain tract of land bounded by the Garo and the Khası Hills and the hills of Tippera on the north and cast, by the Lauhitya, or the old Brahmaputra river, on the west, and by the Bay of Bengal on the south as the ancient kingdom of Samatata. It is a perfectly natural geographical unit with neitly marked boundaries, comprising the eastern half of the present Mymensingh and Dacca districts lying east of the Brahmaputra, the greater part of Sylhet, and the whole of the Tippera and Noakhali districts The distances between countries recorded by Yuan-Chwang are, in all reasonable probability, distances between the capital towns, and the distance of 250 miles recorded by Yuan-Chwang between Kāmarūpa and Samatata is pietty accurately the distance between Gauhāti and Comiliā1 The circuit of 600 miles is also right and the tract, which is a vast plain, by any modern route borders on the great sea

¹ I am of opinion that Badkāmtā, 12 miles west of modern Comillä, was the ancient capital of Samataţa.
Vide my paper "A forgotten kingdom of East Bengal," J. A. S. B., March 1914

There has been much discussion about the situation of the countries of Shi-li-ch'a-ta-lo Kin-mo-lang-kia, etc., mentioned by Yuan-Chwang in his account of the kingdom of Samatata, but no satisfactory solution seems to have been arrived at. With our present identification of Samatata we may proceed to consider their cases also. This is what we find in Beal's edition about them.—

"troing north-east from this to the borders of the ocean, we come to the kingdom of Srikshetra (Shi-li-ch'a-ta-lo). Farther on to the south-east on the borders of the ocean, we come to the country of Kamalanka (Kia-mo-lang-kia) Still to the east is the kingdom of Dvārāpati (To-lo-po-ti) Still to the east is the country of Ishanapura (I-shang-na-pu-lo). These six countries are so hemmed in by mountains and rivers that they are inaccessible."

Now, the pilgrim says that the country of Shi-hi-ch'a-ta-lo might be reached by proceeding north-east to the borders of the ocean This anomalous statement seems to have puzzled everybody, including Beal and Watters, as the borders of the ocean are never reached by going north-east from Samatata, wherever its position might have been in eastern India, and the fact that all the original copies of the Travels available, as well as the biography of the pilgiam. give north-east as the direction, has stood in the way of emending the text to south-east studied opinion is that in spite of the unanimity of all the versions, north-cast is a manifest mistake for south-east and the apparent unanimity arises from the mistake having originated in a very early copy of the 'Records' The very qualifying phrase that the direction would lead to the borders of the ocean is sufficient for the emendation. But the emendation is confirmed by the manner in which the succeeding sentences begin. The next sentence begins thus,-"Farther on to the south-east, etc" and this would lose all force if "south-east" had not been the direction spoken of in the previous sentence If we accept south-east and move from Comilla in that direction to the borders of the ocean, we arrive at a place called at present Chattagram (Eng Chittagong), which was anciently called Śri-Chattala, a name still frequently used Is there any reasonable objection to identifying Yuan-Chwang's Shi-li-ch'ata-lo with Śri-Chattala of the present times? It is evident that it satisfies all conditions,

The second importance of the inscription lies in the fact that it throws some light on an obscure part of the history of the Pala kings of Bengal The Bangarh plate of Mahipala 12 and the Dinappur pillar inscriptions inform us that some usurpers drove Vigrahapala from the throne and that he, after losing his kingdom, took shelter in the eastern country where water abounds (dēśē prāchi prachvrapayasi) His heroic son Mahīpāla recovered the lost kingdom of his father The two characteristics, water-abounding and eastern, agree well with the present districts which composed the ancient kingdom of Samatata, -so well that it is impossible to suggest any other country which answers equally to the description, and little room is left for doubt that the eastern country alluded to was the kingdom of Samatata new Bāghāurā image inscription, which is the earliest of the reign of Mahīpāla, finally settles all doubts on the point When we find that Samatata was under Mahīpāla so early as in the third year of his reign, we cannot but conclude that it was Samatata where Vigrahapāla took shelter, suffering reverses in war with the usurper, and leaving north Bengal in the hands of the victor The fact of the earliest inscription of Mahīpāla turning up in Samataia points to his having probably been crowned there and this was perhaps the loyal country used by him as the base of operations in his fight with the usurper for the recovery of his father's kingdom.

The Mika in the Bangarh plate which describes Vigrahapāla's sojourn in the eastern country has been copied also in the Amgāchhi plate³ of his great-grandson Vigrahapāla III, where,

¹ J A S B, Vol LXI, pp 77-87 and Gaudalekhamālā, p 91 Also Ep Ind, Vol XIV, page 224.
2 J A S B, 1911, p 615

Ind an Antiguary, Vol. XXI, pp. 97 101.

currously, it is applied to him. Mr R D Banerji, MA, in his Monograph on the Pālas of Bengal, is inclined to discredit the statements of the ślōka on this ground. When a ślōka describing some events in the history of a monarch, occurring in a copper-plate of his son, is reproduced in a copper-plate of the great-grandson of that monarch and is applied to that great-grandson, it is presumable that the former application is correct, and the latter plate is (1) either a forgery or (11) the composition of a very silly panegyrist, who was unaware of the historical significance of the ślōka and took it only as an attempt at conventional panegyries, or (11) the repetition denotes some similar event in the life of the latter monarch.

The inscription is incised under the lotus-seat of a standing image of Nārāyana (Vishau) about 3' high, between two kneeling figures. It is in a perfect state of preservation and is legible throughout without any difficulty. The lines measure each 6" in length and the characters are \( \frac{2}{3}'' \) long. The characters belong to the North-Eastern variety, specifically called the Kutila character, which gave birth to the Bengali characters of the modern days. The inscription is dated; but the date is given in regnal years. It refers itself to the reign of a king called Mahīpāla, presumably Mahīpāla I of the Pāla dynasty of Bengal, Mahīpāla II had a very short and troubled reign, terminating in the successful Kaivarta revolt. As the chronology of the Pāla kings of Bengal is still uncertain, it is difficult to give the exact year of the inscription, but it cannot be far removed from 976 A.D

The language is Sanskrit In orthography, the only point to note is the absence of the avagraha sign in punyayasō abhīo (14) No distinctive mark of virāma is added to final consonants. There are numerical figures for 3, 2 and 7.

#### TEXT.

- 1 [सिहिरस्त] सम्बत् ३ माघदिने २० श्रीमहीपालदेवराज्ये
- 2 कीर्त्तिरियं नारायणभट्[ा]रकाख्या समतटे वि(वि)लकीन्द-
- 3 कीयपरमवैणावस्य विणकांत्रीकदत्तस्य वसुदत्तसुत-
- 4 स्य मातापित्रीरालनस पुष्ययशोपिसहद्वर्यः

## TRANSLATION.

May success attend. The year three, the 27th day of Māgha In Samatata, in the kingdom of Śri Mahipāla-dēva, this meritorious work, namely (the image of) the lord Nārāyana, is of the merchant Lōkadatta, belonging to (the village of) Bilakindaka—a great devotee of Vishņu—son of Vasudatta, for the furtherance of the spiritual merit and fame of himself and parents.

## 3. THE KEOAR VISHNU IMAGE INSCRIPTION.

The inscription was discovered by myself in 1909. That year, in the month of June, I happened to be on a visit to the little village of Keoār, some three miles to the south-east of Rāmpāl, the famous site of the ancient capital of the Sēna kings of Bengal, in the Munshiganj Sub-division of the Dacca district. I found the image lying on its face, half buried in earth, and on turning it for inspection, I noticed the inscription. The image has now been fixed against the outside wall of the math in the same village.

The inscription is incised on the pedestal of an image of Vishnu, about 3' in height. It is in four lines, each line measuring 7", but the last line is an inch shorter, for want of plane space to write upon. The letters are about \( \frac{1}{2}'' \) in height and are everywhere boldly incised.

¹ Memorrs, A S B, Vol V, No 3.

²Expressed by a symbol.

The second couplet has been much injured towards the end by the erosion of the stone, and the several letters could with difficulty be recognized 1

The inscription is in verse throughout, and consists of two couplets. The language is correct Sanskrit, with only a single exception, which is perhaps an engraver's mistake. The letters belong to the Kutila variety, current in Bengal in the 10th, 11th, and 12th centuries. The inscription is not dated, but paleographical considerations would not possibly allow of an earlier date than the early part of the 13th century A.D. It records the installation of an image of the lord Vishnu by one Vangöka, great-grandson of Saurisarman, grandson of Pitāmaha and the offspring of the couple Sayōga and Anuyamī

The absence of a royal name in a pretty long inscription is rather remarkable, though by no means uncomme. It may suggest that the inscription belongs to a period when there was no king worth the name to refer to at the time of the installation of the image. There is another fact which confirms this supposition. The Brahmana family to which Vangoka belonged is spoken of as hailing from some place in Varendri, i.e. north Bengal. They must have migrated to Vanga, which included the pargana of Vikramapura, the region where the image was found, not long before the installation of the statue, as the fact of their descent from a stock of Varendri was, in Vangoka's estimation, still of sufficient distinction to merit a special mention. The name Vangoka is also significant. In a family where the first three of the line are named in pure Sanskrit after the sacred names of gods, the naming of the fourth member after the name of a country signifies that he was born just after the family had migrated into that country, and the migration was an important event in the family history

The period at the end of the 12th century A.D. which necessitated the migration of Vārēndrī Brāhmaṇas from north to east Bengal must have been the time when Lakshmanasēna was worsted by Muhammad-bin-Bakhtyar, about 1200 AD, and the old kmg and his court fled to Vikramapura Muhammad established his court at Deb-kot, 14 miles south of Dinajpur, in the heart of Varēndrī, and orthodox Brāhmanas must have had a rather hot time of it, necessitating flight to the Vanga country, where the Sēnas still had sway. The history of the reign of the sons of Lakshmanasēna is very imperfectly known, but erasures of royal names on their copper-plates suggest fratricidal war and consequent anarchy, and the present inscription may well belong to this troublous period.

#### TEXT.

- 1 [सिहिरस्तु] च्यासात्त्रामेयेन सयोगाङ्गभुवा विसु: [1]
- 2 वङ्गोनेन कतो विष्णुविष्णुसान्तोक्वनास्यया [॥]
- 3 वरिन्द्रीतटकीयेन भाष्डित्यकुललन्मना [1] पितास-
- 4 इस्य पीत्रेण प्रणप्ता भीरिश्रामीण: ॥

# TRANSLATION.

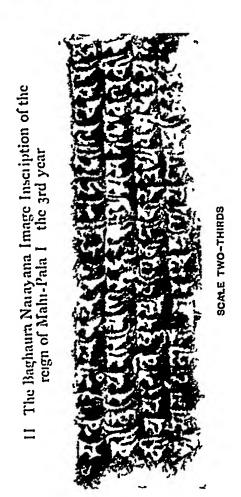
ay success attend! Longing for a residence in the heaven of Vishnu, this (image of) the Lord Vishnu was consecrated by Vangöka, hailing from [the village of] Tataka in Varendri, offspring of the body of Sayöga and (begotten on) Anuyami, in the race of (the Saint) Sändilya, grandson of Pitamaha and great-grandson of Saurisarman.

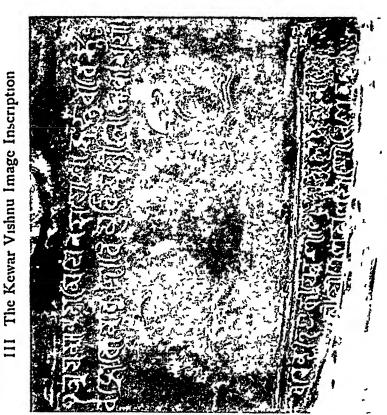
I should put it on record here that the assistance of my friend Profe Radhagovinda Basak, M.A., was of very great use to me in obtaining a correct decipherment and interpretation of the inscription.

# I The Bharella Nartesvara Image Inscription of the reign of Layahachandra the 18th year

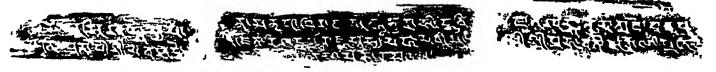


SCALE ONE-HALF





IV The Deulbadi Sarvani Image Inscription of Mahadevi Prabhavati, Queen of Deva-Khadga



SCALE FOUR-FIFTHS

V The Dacca Chandi Image Inscription of Lakshmana-Sena the 3rd year







SCALE TWO-THIRDS



# 4. THE DEULBADÎ SARVVÂNÎ IMAGE INSCRIPTION OF MAHADÊVÎ PRABHA. VATÎ, QUEEN OF DÊVA-KHADGA.

Deulbādī is a village situated about 14 miles south of Comilla, on the trunk road running from Comilla to Chittagong. The image with which we are dealing was found about two decades ago by one Muhammad Faqir Choudhury, when demolishing the ruins of an ancient structure standing on plot No 447 of the Settlement Map of Jammura, a mauza in which the small village of Deulbadi is included, under Police Station Chauddagrama, in the Tippera district. A fine brass statuette of the sun-god, in which the god is represented sitting inside his one-wheeled car, drawn by seven spirited horses, as well as some biass lingas, of which one was inscribed with a short votive inscription, were discovered along with the image of Sarvvanī Babu Taranath Chakrabartti, the then Sub-Inspector of Police in charge of the Chauddagrama Police Station, secured the images and placed them with one Kailas Chandra Chakrabartti of Deulbadi There the images remained for about sixteen years, until they were bought by Babu Saratchandra Chakrabartti and Babu Nibaran Chandra Chakrabartti of the village Dājdi, Police Station Chāndpur, District Tippera There two brothers are the priests of a temple on the Chandimura peak of the Lalman Hills in the district of Tippera, near the Lalmar Station on the Assam Bengal Railway As the image installed in the temple of Chandi had long disappeared, these two brothers were anxious to get an image of Chandi for their temple, and they obtained the present image from a cousin of Kailas, who in the meantime had died The image was brought to Comilla along with the other images discovered, and for cleaning they were placed in the care of Babu Mahesa Chandra Bhattacharyya, a well-known Homocopathic druggist When the images were with Mahesa Babu, the inscriptions on the Sarvvanī image and on one of the lingus began to attract attention Babu Anukūlchandra Roy, Manager, Wards' Estates, Comilla, sent me an imperfect rubbing of the inscription on the image. I at once recognized that this was a new inscription of the Khadgas and wrote to Anukāl Babu to that effect With the help of Mi F C French, CSI, ICS, late Commissioner of the Dacca Division and President of the Dacca Museum Committee, I opened negotiations for the acquisition of the image for the Dacca Museum and went over to Comilla and obtained The owners of the image, after rubbings of the inscription and photographs of the image much persuasion by Rai Annadaprasad Sen Bahadur, the Additional District Magistrate, and Mr T Emerson, C.I E, I CS, the then Magistrate of Tippera, consented to part with the image on condition that a duplicate should be made for them and a sum of money given. At this Juncture the annual grant received by the Dacca Museum from the Bengal Government was reduced from Rs 6,000 to Rs 3,000 and all ideas of acquiring the image had to be abandoned. The image was taken to the temple at Chandimuiā and set up for worship I am informed that it has since been stolen from the temple and lost sight of

The image is of the goddess Sarvvānī, one of the forms of Durgā It is about 20" in height and rather heavy A portion of the rim of the top towards the proper left is broken away and lost. The image is cast in low relief. The technique is rather crude, and the pose rigid. The goddess has eight arms, holding on the proper left, from the bottom apwards, the thunderbolt, the bell, the bow and the shield, and on the proper right, from the bottom upwards, the conchshell, the goad, the sword and the wheel. Two maids are on her two siles, holding fly-whisks. She stands on a lotus-seat on the back of a couchant hon, with a rather well-executed head. The image was gilt all over with thin sheets of gold, the pious work of queen Prabhāvatī, and the original gilding is still intact in places. The white patches in the photograph show where it still chings fast.

The inscription refers itself to the reign of a king called Deva-Khadga of the Khadga line of kings, who ruled over Samatatal towards the end of the 7th century AD. The existence of the Khadga line of kings in east Bengal became known from the discovery in 1884 of two grants of Dava-Khadga, evidently the most powerful monarch of the line These two plates were finally edited by the late Babu Gangamohan Laskar, M.A., in the Memoirs of the Asiatic Society of Bengal, Vol. I, No. 6

The inscription records the names of three generations of the Khadgas;-Khadgōdyama, the founder of the line, his son Jata-Khadga and his son Deva-Khadga. All these names were known from the copper-plate grants of Deva-Khadga referred to above, and it has nothing new to tell us in this respect. It informs us that Prabhavati, queen of Deva-Khadga, caused the image of Sarvvani to be covered with gold leaves out of reverence for the goddess The name of Prabhavati also was known previously, as she figures in one of the plates of Deva-Khadga as a donor of land to a Buddhist monastery The royal family of Samatata seems to have been of a particularly religious turn of mind Yuan-Chwang states that Śilabhadra, the head of the University of Nalanda, came of the royal stock of Samatata We can hardly conceive at this distance of time what an exalted position it must have been As the head of the greatest centre of Buddhist culture of the time, he must have occupied the position of the dictator of the then Buddhist world It is probable that he was a Khadga, and those who kept alive the name of Khadgas in later times tried in their way to emulate their illustrious predecessor by noble deeds of mety and benevolence Deva-Khadga was a donor of land to Buddhist monasteries, and his wife and son also followed in his footsteps, as appears from his grants Yuan-Chwang calls the king of Samatata a devout Buddhist and Dēva-Khadga seems very well to merit this appellation The pious soul of queen Prabhavati has once again spoken to posterity through the present discovery

The image reveals a curious state of religious belief prevalent in those days Queen Prabhavati and the members of her husband's family were all devout Buddhists, but all the same she did not feel it irreligious in any way to pay reverence to a goddess who must have belonged to the Brahmanical pantheon. Harshavardhana, to whose court Yuan-Chwang came, in a similar manner divided his veneration among the Buddha, the Sun-god and Siva All these clearly show that we must revise our idea of the Buddhists and Hindus of ancient days as two communities shut up in watertight compartments. They were more like the present-day Śāktas and Vaishpavas than otherwise

Asrafpur, near the bank of the old and the real Brahmaputra, the find-place of the two plates of Deva-Khadga, and Deulbadi, sixty miles south-east, almost at the foot of the hills of Tippera, the find-place of the present image, mark respectively the western and eastern limits of Samatata, the kingdom of the Khadgas

The inscribed surface at the base of the image is about 8" in length, and the characters are approximately to long. They are bigger in the two extreme sections than in the middle one. They are incised pretty deeply and are in an almost perfect state of preservation

The characters belong to the Eastern variety of the Gupta script current in Bengal towards the end of the 7th and the beginning of the 8th century A.D. Mr Laskar, at the time of editing the plates of Diva-Khadga, assigned them to "the 8th or 9th century AD", while Mr R. D. Banerp in his Bengali History of Bengal is, on paleographical grounds? inclined to push the date still further forward. I believe, however, that these Khadga inscriptions cannot be taken farther than the beginning of the 8th century A.D. No one, I believe, can

¹ Fide my paper " A forgotten kingdom of East Bengal," J A S B March 1914.

Fide also Vr. Bang-ji's Monograph on "The Pales of Bengal." Memoirs, A. S. B., Vol. V, No. 8, p. 67.

compare the letters of the present inscription, as well as those of the two plates of Dēva-Khadga, with the letters of the Nidhanpur plates of Bhāskaraverman, the Aphsad and the Shahpur inscriptions of Āditya-sēna-dēva, the Deobarnark inscription of Jivita-gupta, the Banskhera and Madhuban plates of Harsha, without coming to the conclusion that a span of about a hundred years covers them all A companison of the characters of the Khadga inscriptions with those of the carliest known inscriptions of the Pāla kings leaves no doubt that the former must be considerably prior to the latter, possibly by about a century

There is nothing special to note in the orthography, except the doubling of v after r in Sari vāni. The use of only one symbol for b and i is almost the rule in Eastern Indian inscriptions, as in the modern Bengali language

The language is correct Sanskrit verse. The inscription is in three lines on three sections, the first two lines run over all the three sections, while the third line is incised only on the middle one.

I edit the inscription from rubbings and photographs in my possession.

#### TEXT.

- 1 [सिंदिरस्तु] खिस्त खद्गीयमी नाम रुपाधिराजस्तव्यः निर्मे सातव्यः [।*]
  तदालजो दानप-
- 2 ति: प्रताणी चोदेवखरी विजिनारिखण. ।[1¹] राज्यस्य सहादेवी सहिषी चीप्रसावती [1^{*}] स(प्र)र्व्वाणीप्रतिसां
- 3 अस्या हिसलिप्तासकारयत् । * *

#### TRANSLATION

May success attend! May welfare accrue! There was an overload of kings, Khadgodyama by name. His son (became known) on earth (as) Jāta-Khadge. His powerful and benevolent son Dēva-Khadge was (like) a sword, a conqueror of all foes. Prabhāvatī, the queen-consoit of this king, out of acverence for Sarvyāṇ, covered her image with gold.

# 5. THE DACCA CHANDÍ IMAGE INSCRIPTION OF THE 3RD YEAR OF LAKSHMANA-SĒNA-DĒVA.

The inscription is on the pedestal of an image of Chandi, discovered about four decades ago in the ruins of Rāmpāl, the site of Śrī Vikramapura, the capital of the Sēnas referred to in their land grants, in the pargana that still goes by the same name, included at present in the Dacca and Faridpur districts. It is at present worshipped in a small temple situated in the Dālbāzār quarter of Dacca on the Farāshganj Road, a little to the east of the Northbrook Hall. The late Babu Baikunthanāth Sēn, Deputy-Inspector of Schools, of Sonārang, District Dacca, was an enthusiastic collector of images, quite a crop of which used to turn up every year in the course of casual excavations in and around Rāmpāl. These, on discovery, were usually put under a tree by a roadside to receive the chance worship of the passers-by. Sometimes they were put to altogether unholy uses and sometimes consigned again to neglect and oblivion. It does great credit to Baikuntha Babu that he alone, amidst the general callousness of his countrymen was alive to the artistic and archæological inerit of these relics of the past, and not a few of them owe their safe preservation to his labour. Many pieces of his collection are, it is gratifying to note, now in the Dacca Museum. This inscribed image of Chandi was one of Baikuntha Babu's finds, and he must have presented it to the founder of the temple in which it at present lies.

Fp Ind , Vol XII, p. 65

The inscription, however, seems to have aroused little interest at the time of the discovery, and its existence was unknown to the gentry of Dacca. In April 1911 Mr. R. D. Banerji, M.A., of the Archeological Survey, and some friends discovered it, and from that time it has been known to the public.

In August 1911 Mr Banery published a reading of this inscription in the Bhīdra, 1318 (BS), number of the Pratibhā, the journal of the Dacca Sāhiya Parishat in an article on king Lakshmana-sēna of Bengal Four months later, in the Pausha number of the same journal, in a long article on the Sēna kings of Bengal, I gave my reading of the inscription. In June 1912 I published the inscription, with a half-tone reproduction of both the inscription and the image, in the Dacca Review, in an article on the era of king Lakshmana-sēna. In J. A. S. B., July 1913 Mr. Banery re-published it in his article on king Lakshmana-sēna. The inscription has thus been published four times, yet it cannot be said that up to this time it has been properly edited Mr. Banery's reading in the J. A. S. B., as well as his description of the image, is not free from mistakes.

The image is about 30° high and is a rather fine example of Bengal sculpture of the time of the Sēnas. The goddess has four arms and she stands in a graceful tribhanga pose on a full-blown lotus over a conchant hon. Her upper left hand holds a bunch consisting of a half-blown lotus with some bads and leaves. The lower left hand holds an ornamental basket-like thing, either a flower basket or a waterpot. The upper right hand holds an elephant-goad and the lower one is in the Varada-Mudrā. Two attendant female figures stand on the two sides of the goddess, and two elephants are pouring water over her from two pitchers. She seems to be a curious mixture of Gaja-Lakshmī and Chandī and may represent the Śaktı of the god Harihara.

The inscription is in an excellent state of preservation. The inscribed surface is about  $9\frac{1}{2}$  in length, and the characters are approximately  $\frac{1}{4}$  high. The characters may be called Bengali characters of the 12th century AD. They are not very well executed and are far inferior in execution to those of the Deopara inscription of Vijaya-sēna. They may be compared in style and coarse execution to the Buddha Gayā inscription of Aśōkachalla-dēva executed in the 51st atīta-rājya year of Lakshmana-sēna-dēva (Epigraphia Indica, Vol. XII, p. 29). In this connection I may lay stress on a fact which is sometimes forgotten. Printed types have accustomed us to a standard; but in ancient times contemporary inscriptions varied as much in style as handwritings, because the inscriptions were always written with ink or lac on the surfaces to be inscribed and were then engraved by sculptors who were not always literate

The inscription refers itself to the third year of the era of king Lakshmana-sēna of the Sēna dynasty of Bengal As the era has been proved to have begun in 1119 AD, the inscription must have been incised in the year 1121 AD. It records that Adhikrita Dāmōdara, son of Māladatta, began the image of Chandi in the third year of the era of Lakshmana-sēna and that his relative (younger brother?) Nārāyana installed the image in the fourth year. The inscription is in two lines on three sections. I edit it from the original stone. The language is incorrect Sinskrit. Suta and adhikrita, which should have been in the 3rd case according to grammatical rules, are both used in the 1st case.

#### TEXT.

- 1 त्रीमज्ञक्यम्- झास्तदे(द)त्तसुत ग्रिधहात त्रीदासीदरे- श्रीनाराग्र्मेन
- 2 सेनदेवस्य सं ३- ण श्रीचण्डीदेवी समारदा तङ्गादकना-प्रतिष्ठितीत 8 ॥

# Note on the reading

The decipherment of this short inscription presents some very serious difficulties. The fourth letter in what I have read as Māladetta is very curious. It bears little resemblance to any letter or compound used in the inscriptions of the time. Mr Banerji has read it as Māladez, but certainly tta it is not like any i hitherto met with in the inscriptions of the period. It has moreover no perpendicular straight stoke to the proper left, distinctive of an i of the period. The following additional objections to the reading may be advanced.—

- (1) Mālader must be a Prākrit form of Māla-dēvi, and it is not easy to understand why a Prākrit word should be used in a Sanskrit inscription
- (11) The use of only the mother's name to denote parentage is unusual in a North Indian inscription.

The letter that one would expect here is ia, reading the name as Māladēva, but the letter used does not bear the slightest resemblance to the va of the period or any of the va's used in this inscription. Then what is this letter? My reading of the letter as tta is only conjectural, based on the principle of greatest resemblance and possibility and on a surmise which I shall advance presently. [Perhaps we should read Mālā-khadga—Ed]

The second difficulty is about the reading of the name of the donor. Mr. Banerji has read it as  $D\bar{a}m\bar{o}dr\bar{e}na$ , but  $\bar{e}$  is clearly absent from dra. We can read it at best  $D\bar{a}m\bar{o}drana$ , which is inadmissible. I have read it  $D\bar{a}m\bar{o}dar\bar{e}na$ , which is admittedly the correct form of the word. It should be noted that the  $\bar{a}$  mark of  $n\bar{a}$ , the letter below dra, is projected upwards to a considerable distance. I believe the engraver wrote  $D\bar{a}m\bar{o}dana$  through mistake and attempted to put in re between da and  $n\bar{a}$ . Want of space stood in his way, and he fared very ill. The projection of  $\bar{a}$  of  $n\bar{a}$  should, in my opinion, be taken for the engraver's attempt to make a small ra, and the r mark of  $D\bar{a}m\bar{o}dra$  should be taken as the  $\bar{e}$  he tried to make. I have thus read  $r\bar{e}$  between da and  $n\bar{a}$ .

The next difficult word is what I have read as tad-bhrādakanā Mr Banerji read it as tabhrādakana, which gives no meaning whatever, and which moreover is incorrect, as na has a clear ā after it. The word must be a qualifying word of Nārāyanēna, which follows it, and consequently must be in the 3rd case. It is also expected that the word should signify some sort of relationship between the donor and the founder, whose names prove them to have been close relatives. I have therefore read the word as tad-bhrādakanā and would translate it as "by his younger brother" The word bhrādakana, again, is perplexing and new. I can suggest nothing better than that it was an irregular East-Indian compound of the two words bhrātā and kanīyān

Now, Dāmōdara was evidently a high officer of the state, and we may expect to see his younger brother too in a similar position. We know from the Tarpandighi plate of Lakshmana-sēnal that one Nārāyana-datta was his minister of peace and war. Can this Nārāyaṇa-datta be the Nārāyana of the present inscription? Māla is an appellation of Vishnu, and the names Nārāyaṇa and Dāmōdara are also names of Vishnu. It was evidently a Vaishṇava family and the name of the father agrees well with the names of his sons. If our conclusions, which are based on a series of surmises, are right, and if Nārāyana of the present inscription can be identified with Nārāyaṇa-datta, the minister of peace and war of Lakshmana-sēna, we may read the name of Dāmōdara's father as Māladetta and emend it to Māla-datta by taking the sof de as an engraver's mistake

Mr Banerji read a visarga after iti, which is inadmissible, it should be read as 4, resembling the modern Bengali symbol for 4. It is not usual to put the two ciphers of a visarga in touch with one another as has been done in the present case

#### TRANSLATION.

The year 8 of the era of the illustrious Lakshmana-sēna-dēva The (image of the) goddess Chandī was begun by the Superintendent (Adhikrita) Dāmōdara, son of Māladatta and was installed by his younger brother Nārāyana (in the year) 4

## No 25 -A NOTE ON THE VARATAKA INSCRIPTION FROM GANJ

(No 4 of Vol. XVII of the Emgraphia Indica)

BY K N DIESUIT, MA, POONA

The last four paragraphs of the article on 'a Vakataka inscription from Ganj' illegible correction in the light of information available from the Poona plates of the thirteenth year of the Vākātaka queen Prabhāvatiguptā (Ante Vol XV, p 32 ff) and another grant of the 19th year of Pravarasēna (II) issued by the same queen Prabhāvatiguptā (Ind Ant Vol LIII, page 48). The characters used in the Ganj and Nachna inscriptions are later in date than those of the Poona plates of Prabhāvatiguptā. The Prithvīshēna of these inscriptions is therefore more likely to be identified with Prithvīshēna II of the Bālāghāt plates, who was the greatgrandson of Prabhāvatiguptā and not with Prithvīshēna I her father-in-law. On paleographical grounds, Prof Jouveau-Dubreuil attributes the Nachna inscriptions to the fifth century instead of the 4th and to Prithvīshēṇa II, in preference to Prithvīshēna I (Ancient History of the Deccan, page 73). The present epigraph which is almost identical with the Nachna inscriptions, can therefore also be assigned to Prithvīshēna II who must have lived in or about the last quarter of the 5th or the opening years of the sixth century A.D

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sur,=surpame; fs,=temple, si,=village or town, W.=Western.

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